

JUDGMENT

OF

Urines.

By Robert Record Doctor of Physick.

Whereunto is added an ingenious Treatife concerning Physicians, Apothecaries, and Chirurgeons, Set forth by an Eminent Physitian in Queen Elizabeths dayes.

With a Translation of Papins Abad Sossa concerning Apotheraries Confecting their Medicines; Worthy perusing, and imitating.

LONDON,

Printed, and are to be fold by Peter Parker at the Leg and Star in Cornhil, against the Royal Exchange, 1679.

REC. UDGMEL १९म् जिल्लाम् er on male of too E230O in maini this Aller the device. · Notin Williams ng vi Hal



To the Reader.

F either the corruption, or abuse of things, might deprive us of this lawfull and necessary use of them,

even the facred Scriptures, our laws, our provisions of life and clothing, might fall under declention, if not abolition: It is true from the inspection of Urine, some have presumed to pretend a larger judgement, and indication, then may justly be drawn or conjectured out of it; yet it is generally concluded by Physitians, A 2 both

To the Reader-

both ancient and moderne, that May both Urine and Pulse are so necessa-pul ry, that without them all knowledge dica of Physick, besides, is doubtfull, ther obscure, and uncertaine: whereof appethe first sheweth the estate of the cert liver and veines, the second of the the heart and arteries : The Urine be-trace cause with the blood it is conveyed tho into all parts of the body, and from bor thence returneth back again in thegliff veines, to the liver and urinall veffels, labo bringeth with it some indicature of of t the state and disposition of all those pres parts from whence it commeth: and ping who shall please to peruse that exact rece peice of Daniel Becherus, shall finde and observable peices, both concerning the urine, and divers experimented medicines made with ir. Concerning the judgement of the Pulse, who shall please to peruse Doctor May

To the Reader.

nat Mag upon Pennant, shall finde the fa-Pulses motion not so certain an inge dicature, because in some diseases there is cessation, or none, or small of appearance to conjecture by. Conhecerning the Author, he was one of he the first who labour'd to reduce the ed thou, and hath been seconded by lamborious Fletcher, to whom our Enhe glish Nation oweth much for their is, labours: The antiquity and paines of of the Author hath caused it to be depresented again to the Presse, ho-adping, with judicious men, it shall dereceive the acceptance is desired deand Audied

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By the well-wisher of your health,

R. R.





The PREFACE.

Hough the unsatiable greed ines of covetous men doe many and The good sundrie waies hurt, yet some verous exwayes it may do no lesse good, ample.

if men will not disdain (as they ought not) to use it in such fort as I shall shew you.

But because that unsaciableness is never satisfied, but beside thousand of means invented already to quench the unquenchable greedines, it seeketh and findeth daily new and new means innumerable, so that it were an infinite labour to declare them all. I will wittingly, and purposedly passe them over, only taking one general sentence, which shall be in stead of all the rest.

Velpasian, one of the great schoolmasters of avarice, which could pick out profit of every thing (yea, even of mens urine) taught his Scholers (I meane the whole court of coverous persons) this lesson ensuing:

Lucri bonus odor and qualibet.

4 Lucre

Lucre is sweet, and hath a good savours. Though it come of Orine, dirt or Ordure.

This fentence, if it be withdrawn from the filthy lucre of unfatiable covetousnesse, wherein it is deteltable, and imployed rather to the due lucre of mans sustenance, then it becomes tolerable: But if it bee referred to the necessarie lucre of mans health, then is it greatly commendable. If there can be then any commodity for mans health gathered out of urine, (as there may be much) men should not be negligent in seeking of that thing which should do good both to themselves and others? seeing the covetous are so diligent in seeking for that thing which shall profit neither themselves nor others?

And the negligence is so much the greater, if men be more remisse in seeking after so necessary a thing in a matter so commendable, then the covetous in a bad thing.

But in as much as this thing (by reason it is not plainly set forth) is with no lesse difficulty to be studied on, then it is necessary to be used, the ignorant may have some excuse: I therefore in the name of many other, have taken this pains on me, to set forth this thing so plainly, that ignorance can have no excuse.

Ignorance fer alide.

But that no man should doubt of the truth

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of this Treatife, or of mine intent, in putting Why the forth the same rather in this our English Book is tongue then any other : I shall briefly shew written. reasons of both; First, for the truth of it, I no man that can judge it, will fay or thinke otherwise, but that it is as true as mans knowledge can devise it. And it is the opinion of the most excellent writers of Phyfick both Greeks and Latine; namely, Hippocrates, Galen, Ætius, Æginbra, Philotheus, Theophilus, Actuarius: also Cornelius Celsus Plinius, Constantinus, Africanus, and Clementius Clementinus, With others more, conferring also with these Avicenna, Egidius, Polidamus, and fuch like : But with what temperance and moderation they that are learned may perceive. have I followed chiefly in this judgement of Urines.

And in the use of medicine and diseases touching urine, I have joyned with them Dioscorides, Quintus Serenus, Columela, Sextus Platonicus, and divers others. Now if there be any man that doubteth of the truth of those writers in this thing, I am not here to force beleef upon them.

But now as touching mine intent in Wri- The intent ting this Treatife in English; though this of the Au-

cause might seem sufficient to satisfie many men, that I am an English man, and therefore may most easily and plainly write in my native tongue, rather then in any other: yet unto them that know the hardness of the matter, this answer should seem unlikely: considering that it is harder to translate into such a tongue, wherein the Art hath not been written before, then to write in those tongues in which the terms of the Art are better expressed.

Now to shew briefly the causes moving me thereunto. I am sure, there are but sew that ever sought counsell for their health, but they know that the common trade to attain to the knowledge of the disease, is by the judgement of the urine, though not a-

lone, yet as the principall.

Likewise, as there is not any thing so good, but the abuse of it may cause harm to ensue therupon. So this judgment of urines, though it be a thing highly to be regarded, yet if it be used rashly without foregoing signs it may cause (as it doth often) some error in the judgment of the Physitian, though he were right excellently learned: not so much by the ignorance of the Physitian, as by want of knowledge in the patient, which should instruct the Physitian, in such questions as hee needed

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needed to demand of him : and not to look that the Physitian should tell him all things at the first fight, more like a God then man.

So that if there be any Phyfitian fo arrogant, that he will take upon him to tell all things alone, and will not hear the Patient fpeak, specially not knowing the party before, neither feeing other fignes but only the urine, as I dare boldly pronounce, That such a man is unworthy to be called a Physitian. So it shall be good for all men, not to trust to the judgement of fuch a one : for by fuch mif-use in this thing not only much harme befalls the patients, so that it hath been the occasion of many mens death, but also very much reproach hath enfued to the whole estate and order of Physicians, and hath caused that excellent and most necessary art to bee contemned, derided, and little fet by.

To avoid the more this inconvenience, I have written this little Treatife to all men in common, that they may learn to have The use some knowledge in their own urines, and thereby may be the better able to instruct the Physician, at the least, what fort of urine they have made from time to time from the beginning of their ficknes, and somewhat before.

And also what fort of water they were wont

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wont to make in their health? fo that if men will be diligent to mark their water in time of health, they shall not only be able to instruct the Physician (as I have said) but should bee also able to perceive the cause of the disease sometimes before the grief come, and so by the counsell of some discreet Physician avoid the sickness before it bee fully entred: yea, and by due marking of their urine, they shall perceive from time to time, how they shall governe themselves in meats and drinks, in exercise and rest, and the like things, so that thereby they may eschew both the diseases, and also the causes of the same.

Now what a commodity this may bee to all men, and what thanks he hath deserved that hath taught this so great a commodity to all men in generall, I leave it to every

mans own judgement.

And thus (as you may perceive) I have declared the causes of this my pains, taking them to be for the profit of the whole Commons indifferently. Howbeit, if any mean learned Physician shall be thereby furthered in his judgement, I will not envie him, but will be the gladder, the more number of men I perceive to take benefit by it.

I amfure that the true judgement of u-

rines, according to the mind of Hippocrates, The diffi-Galen, and fuch like, is very hard, though not Judgemen to excellent Clerks, yet to the meaner fort; in Urine. partly by reason that it is written so disperfedly in their works, and not in any one Book peculiarly and fufficiently : and partly because that fundry words used in the same (as in the rest of Physick) are obscure to them that have not been exercised in all kinds of learning, and that with the knowledge of both the Greek and Latine tongues. Therefore I trust, that this my pains shall be some help also, to them that lack the exercise of fuch studie and knowledge.

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But because there is a common saying in the mouths of many men now a dayes, that it is a profaining of learning, and a meanes to bring it into contempt, fo to fer it forth in the vulgar tongue, that every man indifferently may read it, and study it: To The answer this I will briefly answer, that this say- unto it. ing is not onely against many great learned mens acts and examples, but also against manifest reasons: besides, that it encludeth a pernitious kinde of counsell. For if every thing should be put away, or left undone, that evill men may pervert and use to an evill purpose, so should we have no good thing remain: meats and drinks mult be

taken

taken away, because many abuse of it. And because evil men doe abuse of both eyes. and tongues, shall all men therefore pluck out their eyes and their tongues? Because many men doe abuse lawes and authority, shall men expell lawes and high powers? Many evill men and hereticks have misinterpreted Gods word, yet ought Gods word neverthelesse to be taught vulgarly to all men. Though the Pope, Cardinals, and Monkes, have practifed to poyfon men, even with the very Sacrament of the Supper of the Lord, yet no man will be fo mad, therefore to eschue the use of that blessed Sacrament: And yet all this followeth, if men allow that common faying, above written. Better meanes it were to fet forth publickly all that might doe good to the publique wealth, and streightly to punish the abuses of them, then to punish good men and good things, because that evill men offend. It is a like error to that fort of doctrine, which contemned wine as an evill thing, because that many were made drunken with it. But to leave this, and to come more particularly to the matter.

What is learning unlearned, or knowledge unknown, any thing else but a vaine name? Learning then encreaseth most, when it i

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it is studied of most: And learning then triumpheth most, when it hath most favourers and followers. And then doth ignorance (learnings enemy) rejoyce most, when learning reigneth in fewest, and blindnesse ruleth most: so that then is learning most profained, contemned, and hated, when it hath most enemies: that is to fay, when most men are ignorant. For that old faying shall alwayes be true: Learning ls, hath no enemy, but the ignorant.

Aske that great Cleark Plutarch What Plutarch his his minde is in this: Whether the judge-femence.

ment of health be a meet thing for every man to Rudy: and thou shalt heare him anfwer: that sname it is for men to observe the crying of Crowes, and such like things in beafts and birds, whereby men judge of the change of weathers, and to be negligent in marking motions within themselves, and alterations preparing unto sicknes. Yea he requireth so exact knowledge in every man appertaining unto health, that he noteth it for a great shame, and calleth it unsensibleness in a man if he be so ignorant, that he shall need to ask of the Physitians, what meats are best for him. And to ask what meates shall best digest in him, is as absurd a question (faith he) as to ask what meats are sweet, foure,

foure, or bitter, and fuch like. Yea beyon all this, he requireth in every man the know ledge of his own pulse, which is a thing har der then the judgement of urines.

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Now if you require Examples, the whole world is full of them. They that wrote in Greek, wrote in their own vulgar tongue: and fodid they that Wrote in Latine, Write

gar tongue. in their own common speech.

Besides that, have we not infinite examples of Learned men in Germany, France, and Spain, which wrote of Physick in their own tongue? Yea, Is not our own England full of Examples? How many Books of Practifes? how many Herbals? and other like Books of Phylick, hath there been put forth many yeers past? And yer unto this day doe not learned wits sleepe. How much is all England bound to that Worthy and Learned Knight Sir Thomas Eliet, which took the pains to build a Cafile of Health for all English men (besides many other learned Books that he hath purior c forth in the Vulgar tongue) whereby a man may learn both to govern himself so, that though he escape not all sicknesses quite, to n yet he shall eschew the great dangers of them ? England may rejoyce of such a Knight : yea, England hath too few that followeth

Examples

Sir Thomas Eliots Cafile of Health

followeth such example. But if England had as many well willing doers as she hath cruell and spitefull disdanners, then were England the Flower of all Realmes in the world.

Now will I leave this and draw nearer to my purpose, and will desire all men that shall read this Book, patiently to bear with my boldness, and thankfully to receive my good minde. And if there shall bee found in this Book, or in any other that I shall put forth, a small error or oversight (for greater errors, I dare say there shall be none) I shall desire all them that shall find any, to advertise me thereof by word or writing, and I shall be ready not onely to render condign thanks, but also to amend duely that shall be thought amisse, or else to yeeld a reason for the proof of the same,

And now to make an end: I will de-An exhorfire every man soberly and discreetly to use tation to this my Book, not using it to the taunting the Reader.

or checking of other men: nor to trust in their own knowledge further then they

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And likewise I shall exhort all men, not to mock and jest with any Physician (as some light wits do) tempting them with B Beasts

Beaks stale, in stead of mens urine: others bringing to them mens water for womens, and such other like things. For in this doing they deceive not the Physitian, but themselves. For a mans water to be like a womans, it need feem no strange thing. Howbeit, again there is a notable difference, infomuch that that water which in a man declareth health, if it were a womans, might declare some disease; and likewise that which in a woman signifieth health, if it were a mans water, it might betoken sicknesse. And if a mans water and womans be like, and betoken both diseases, those diseases may be divers and not one.

Yea two mens waters being both alike, shall not declare alwaies one grief, except they agree also in age, diet, exercise, and

other like things

Also, that a Beasts Water may be like a Mans (the Mans sicknesse being thereafter) Hypocrates witnesseth, and experience teacheth, as I shall declare hereafter.

Therefore if you feek the Patients health, look that you receive the urine diligently: and as foon as you can, prefent it to the Physician, and be diligent to instruct him in all things that you can, and that

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he shall not have need to aske. And so no doubt, you shall receive great commodity of that Art, to the health of man, and the glory of God, which hath given such knowledge unto man.

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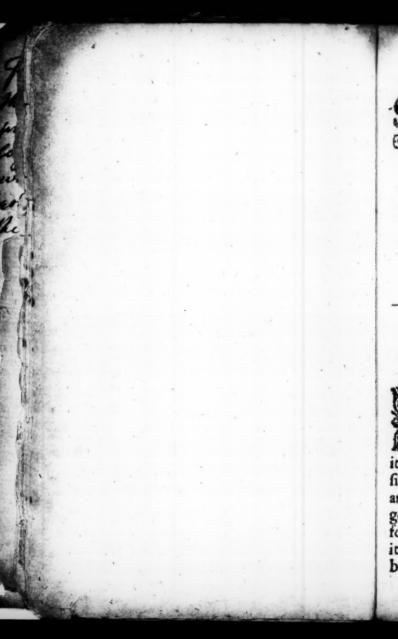
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THE



URINALL PHYSICK.

CHAP, I.

Of the Division and Order of this Book.

Ecause that nothing done consufedly can be well understood of the Readers, for every thing the better order it hath, the better it may be understood, and is much more eafily remembred, when the order of it is well and certainly known: I have therefore digested this Book orderly, as I shall here set of this forth, to the intent that you may read, as it were in grosse the whole Book, and thereby keep it the better in remembrance.

First,

The Judiciall of Urine.

First, therefore I will declare the nature of urine, what it is, and how it is ingendred within man, and how it passeth forth from man.

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Secondly, of the order of receiving it in a convenient vessell. And of the time and place meet to consider it.

Thirdly, how many things are to bee confidered in urine: and how many wayes they may be altered in a healthfull man.

Fourthly, what figuifications and tokens may be gathered of urine, concerning any alteration in man, past, present, or to come,

Fiftly, to what use in medicine urine may serve: and of other good uses of it to mans commodity.

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And last of all, I wil declare certain diseases touching urine, which either let it, or cause it to void unwillingly: with the Medicines and remedies meet for the same.

CHAP. II.

How Urine is ingendred in Man and how it passesh forth.

A Sunto them that are learned and know by the Art of Anatomy the scituation of the parts of man, and the naturall office

of every part, it is easie enough to perceive the originall generation and cause of urine, without any example : fo unto them that neither know the scituation, nor offices, no, neither yet the names of the parts of mans body, it is scarce possible to make them to perceive the generation of urine, without some sensible example But because it is very hard to find an artificiall example, which can alone duely expresse this work of nature, I will use therefore an example of a natural work, which shall expresse in many points this thing, though not in all; for such can there none be, but the thing it felf.

And in as much as this example is not easie to be understood of all men, though the most part do now a daies partly know it by experience of finding springs of waters, I will first propose an artificiall example, to make both the other to be the better per-

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It is daily feen in distilling of Waters, that An examthe temperate heat of the fire doth sepa- ple of Stilrate the purest part of the juice from the ling. herbs, and also from the groffer juice. This by naturall lightness is drawn into the head of the Stillatorie, where by the coldness of the helmet, it is made somewhat groffer, and to through naturall heat descendeth and

The Judi of Urine.

passeth forth by the Pipe of the Stillato-lab

The Originall.

Cause of

And as the Art of man uleth to make this water, to doth nature use to make the water the of springs, whereof come all rivers, streams wi and floods, except the fea. For feeing their earth is not perfectly found and thick ofby substance, as stones and some woods appearth reth to be, but it is hollow and full of holes for as you fee that cork is : fo that the air which di by his subtleness pierceth into never soco little a hole, entreth and filleth this hollow- ac nels, nature so leading to it, because no place B should be emptie: In which place by the ha coldness of the earth, the air is turned into water, as you may fee in walls and pillar th of stone, namely, of marble, how the coldnels of the stone turneth the air into was h ter, and hangeth full of drops, which some i times trickle down apace, as if they did t So when the earth hath turned the air thus into water, then doth it dro down and gathereth together, and fo run neth out as it can finde or prepare way As long therefore as there is hollownes in that place, with such fort of coldnesse, and none other let, the Spring of water shall never cease. But if the way by any mean be stopped, then the water turmoileth an labou

The Judiciall of Urine.

lato-laboureth, either to expell that let, or to

make a new way.

this Now this water being thus ingendred of The causes vater the air which hath no tafte, is also naturally of diversity cams without all taste: but the tast that it hath in tast of g their the taste of the vaines of earth or mettall, Water. ck ofby which it doth run. And that is the cause ppea that some waters are sweet, and some soure; noles some fresh, and some salt, and otherwise which diverfly tasted; some also are hot, and some er socold, and with other like qualities endued, low-according to the ground whereby it passeth. place But of this I will not now speak, because I y the have appointed for it a peculiar Treatile, if into God grant me time : Only this I fay now, pillar that a man that is expert, can by the colour, cold tast, and other qualities of the water which was he feeth, tell what vains of earth or mettals some is in that place whence that water cometh, y did though he fee it not.

arned And this water is expelled out of his first dror place, as unprofitable there to remain; and run yet when it is come forth thence, it is good

for divers and fundry uses.

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Thus may we thinke of the generation and The gene-, and use of urine or mans water.

It shall not need that I here reckon exact- urine. ly the places, causes, and the order of the Three Con three concoctions which go before the ge-coctions. neration

ration of

neration of urine, but it shall suffice to tel A briefly, that of the meat and drink togethalt concocted in the stomack is made rusein blood :(if I may so call it) which rude blooro is wrought again, and made more perfected in the liver: and thirdly yet more purifier ed in the hollow vein, where the urine hu separate from it, as whey from milk, but ye may not exactly be called urine, till it coms into the reins or kidnies, which draw it out at of the hollow vein, by a certain naturath power resting in them. And then doth they reins or kidnies alter it perfectly into urinepe as the coldnes of the ground turneth air intel water. But you must take this comparison of similitude to be spoken of the alteration ital felf, and not of the cause.

fashion of water (as I said) then as the water passeth forth from his first place, by issue outward, so doth the urine descend from the reins by certain veins (as it were) called Water pipes, and runneth into the bladder, from whence at due times it is expelled forth, if the way be not let. So that you may compare the reins to the head of a conduit, the water pipes, to the conduit pipes, the bladder to the conduit, and the shaft

to the rock of the conduit.

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to tel And further as the water doth declare by ogetherteand colour the qualities of the earth, or de rudeins of mettall, whereby it runneth, and e bloorom whence it commeth, fo the urine by erfectiolour, and other wayes, declareth of what puriffort the places that it cometh thorow, and arine humors that it commeth from are affected. but ye And yet not only serveth for this, but also t comes the water, though it depart from the vit outarth as superfluous in that place, yet in oaturather places and to other purposes it is greatth they profitable. So the urine, though it be exurinepelled as a superfluous excrement, yet beside r interhecommodity of judgement, which it gifon overh of the parts that it cometh from, it doth ion italfo ferve for divers uses in medicine, and other good commodities: Of both which, I o that will anon orderly write, after I have decla-

water red certain things appertaining to the due iffues judgement of it.

from called dder, celled you con-

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And

The Judiciall of Urine.

Of the Instrument and parts by which Urine is engendred and passeth, mark this Figure following.

A. Is the liver. B. The hollow vein C. Veins by which the reins do draw the urine, and therefore be called fucking veins. D. The reins. E. The water Pipes. F. Is the Bladder. G. The spout

All the other parts beside, atpertain to Generation and feed.

of the yard.



CHAP

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CHAP. III.

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What Urine is, and what tokens it giveth in generall.

YOu have heard now how urine is ingendred, from whence it cometh, and y what places it passeth, which things all, the intent that you may the better keep minde, you shall note this short definiti-

Urine is the superfluity or whey ie substance The definif the bloud into a hollow vein, conveyed by tion of uhe reins and water pipes, into the bladder. rine.

o that hereby you may plainly perceive, hat if the bloud be pure and clean, and none grief in the reins, Water-pipes, Blader, nor Shaft, then shall the urine so declare t, being also perfect and pure in substance nd colour, and all other tokens according to the same. But if there bee any grief in nyof those parts, or the blood corrupt by ny means, then shall the urine declare cerain tokens of the same, as I shall anon partiularly expresse.

But first it shall be necessary to instruct ou of the vessel place, and time, meet to adge urine, and of the manner of receiving

CHAP. IIII.

Of the form of the Vrinall, and of the withi and time meet to judge urine, and howime i it hould be received.

The order to receive urine,

Hat urine should be kept to see, wholou I is first made after midnight common at in or namely when the patient hath flept leput v but you must take heed whether the patiward be man or woman, that they make not thoul urine in another vessel first (as many useneasu do) and then pour it into the urinall weepre it is fetled, for that caufeth much deevery and error in the judgement of it. Andour. that the Patient cannot well make it in peith urinall, either by weaknesse, or any or rue s cause, then let them make it in another wrine fel; but fee that it be clean and dry; and lefor foon as the water is made, pour it forth pregion fently into the Urinall altogether, and less no part of it out, as some curious folkpehol use to put the clear part only into the urin her t and cast away the dregs, as though it sodiscer not with their modelty to bring such fatance gear to the Physician, others of such like fovet the let not the urinall stand open, namely in beam dusty place, but stop it close with a glove Be

other

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beher leather, and not with cloth, paper, nor ay, and let it be brought to the Physician within fix hours at the furthelt, for after that bodime it cannot well be judged.

Now as touching the Urinall, it should be The Urinal.

f pure cleer glasse, not thick, nor green in wholour, without blots or spots in it, not nor at in the bottome, nor too wide in the neck, lout widest in the midle, and narrow still topatiward both the ends, like the fashion comthonly of an egg, or of a very bladder being useneasurably blown (for the Vrinall should weepresent the bladder of a man) and so shall deevery thing be seen in his due place and condour. If neither the groffenes of the Vrinal n heither the colour, nor spots shall let the of true fight of the colour and fubstance of the r prine, and the contents of it : neither the nd deform fashion of the urinall shall alter the h pregions or rooms of the urine.

le Likewise concerning the place meet to The place ik pehold urines, you must look that it be neirinther too dark, fo that your fight should not defiscern perfectly, either the colour, sub-

fotance or contents, for lack of light : neither foyet that your fight be likewise deceived, if

athe place be too light, as in open light or inbeams of the fun.

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ved Besides this also you must mark the time The time. due

due to behold urines, but because there cand in no one time be assigned certain and exact sist; judge all parts of it, I will briefly shew to blen order of the things to be considered in the toth time.

First, when the urine is made, while it the ryet somewhat hot, you shall consider thee St lour of it: for that may best bee discernment then; and likewise the thickness of the substitution of it, which if it be mean, shall thestable be best seen. All other things, as the bubble order and the contents shall be best judged some follow what after, when the urine is somewhat cocolor led, and they be duly settled in their props men places.

CHAP. V.

How many things are to be considered tine: ked.

Four things of the generation of the Water or Uself, in to be con-rine, and of the manner of receiving it is it: So fidered in vessels due, with time and place meet to conurine Urine, viz. sider it. I will particually declare how man This Substance, things are to be considered in it, which apperced Colour, commonly named four, that is the Substance through Contents. the Colour, the Quantity, and the Contents called

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ked. Bu e and the Savour thereto may be added as the of fift; to the which fift, if you shall joyn stav t bleness and order, as two accidents common the to the first four things, (but yet no leffe to be confidered then they) then shall you judge it the more certainly.

scallenes is called, when the urine conti- Stableness. ronneth certain daies together of one fort. And fulif it alter every day, then is that called un- unstablethestableness or changeableness, to which thing ness. blorder doth appertain: For order is the Order.

omfollowing of one thing after another, as black cocolouted urine after white, green or pale.

opel mean not because that so it ought to follow, but only that you must observe how it doth follow. For black Urine doth not fignifie the fame if it follow after green urine, as it doth it it follow after white urine: fo that the order ought also to be mar-Ked.

But now to return to the four first things. Substance is called in urine, the urine it Substance. Uself, in respect of the thickness or thinness of it: So that there are 3. forts of substance in Three forts onurine: thick, thin, and mean.

Thin fubstance is called, when you may Thin. arperceive well the joynts of your fingers cethrough the urine. And contrariwise it is Thick. ts called thick, when you cannot well fee your fingers

fingers through it: and that is in the mid dle between extream thick and extream Mean thin, is called, mean.

Colours are divers, but the principall and Coloury. these six, white, pale, flaxen, yellow, red and black. And all the other colours are con tained under these six.

Light white As under white, are contained clear a as Chrystallie, snowie chrystal, white as snow, and pure as water

which three are light whites. walstis

Then are there other three more darker Dark white as milk white, cleer like horn, and grey. as milke-After white, followeth pale colour, and white, horny then flaxen, bray, pale, exen, yelthen yellow, which may be called golden, for low. it is the colour of pure gold.

After it followeth light saffron, and the Light faffron, faffron faffron, then claret colour, and then red, at colour. ter it crimson, and then purple, and the Claret. blue.

Red.

Then is there green of diverskinds, as light Crimfon. green, green as graffe, ftark green, and dar Purple. Blew. green. Green.

There are also oil colours (that is, popin gay green) of three forts: as of green, light Oylie. oily, stark oily, and dark oily.

Ash colour. After these is there Ash colour like und lead; and after it, as last of all cometh black Black. And these be the chief colours.

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Now as touching quantity, it is also in three forts; much, little, and mean.

Then it is called much quantity, when it Much. exceedeth the measure of a mans drinking.

And then is it called little, when a man Little.

piffeth leffe then he drinketh.

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And that is mean, when a mans piffing and Mean. his drinking is of like quantity. All this must

be confidered by due proportion.

The contents are all things in the water, Contents. that be of another matter and substance particularly, then is the urine : as the fediment Sediment. or ground, the sublation or swim, and the Sublation. cloud, To these are added other dif-form Cloud. contents, like hairs, like huskes, like bran, and fuch other. And also the crown of the he urine, with the bubles, and other things fwimming on the top of it.

For the better understanding of these contents, you must note that the whole urine igh from the top to the bottome, is divided com-

monly into three rooms or regions.

lar The lowermost is the region of the ground rooms or fediment : fo that the grounds or fedi- or Regions gl ments are the contents that occupie the Ground or lowermost region. Or yet more properly, no the sediment is called a certain substance of groffer matter then is the urine, like to a quantity of very watery flegm, which fleeteth alictle

a little above the bottome of the urine: But if it be so light, that it swim in the middle region of the urine, then is it called the fub limation or fwim.

Sublimati-

on or Swim.

Cloud.

Another division of the three Regions.

And if it bee yet more lighter, so that it doth fleet in the highest part of the urine then it is called a cloud : whereby you may bou perceive that the ground, the fwim, and the cloud are but one thing in subRance, and differ onely by lightness and height, and ta keth his name according to the region that i occupieth. But yet again note, that even one of the 3. regions, is farther devided into other parts also; whereby you may know exactly, how far all contents differ from th just room of their region; so that the whole urine must be divided into eleven just parts of which the nether region occupieth four the fift is the void room between that an the middle region, which containeth 3. more that is to fay, the fixt, feventh, and eight And then the ninth is a void room between the middle region and the highest, which highest region, containeth the other tw parts that remain, that is the teath an the eleventh, as this Figure sheweth which hereafter followeth.

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Bove thefe Bu 13. regions, ddl about the very fub brink of the urine, you may fee ine it were, going amay bout, and that is the cal'd the crown.

and Highest of all ta things in the urine are the bubven bles which either go about now with the ring Te th only, or else fleet

Bubbles.

in the middle of the urine onely, or else both Yeasometime they cover all the whole top of out the urine.

Beside these, there is oftentimes as it were flotes or fattiness on the top, and some- Fattiness time certain spots only, which are like to drops of oil. And these commonly are the whole contents. For as for gravell or stone, or any like thing is contained under the name of differom contents.

You shall also understand, that in the contents must the substance, the quantity and colour, bee observed.

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The Fudiciall of Urine.

The Substance is either equall or une-red ubstance ratio quall.

Equal Substance is called, when the ground man Equall. fwiin, or cloud, (for to them apperrained mul this confideration) is not tattered and difper the

fed, but justly knit together.

Inequall.

Unequall is contrary, when it is thinner thin in one part then in another, or flittered out I w and not joyntly and uniformly joyned toge is, v ther.

Quantitie.

The quantity must be considered in re-by spect to a mean, which, if you know well the then may you foon judge that to bee over much, that is more then it:and that to be too ftan little, that is lesse then it: But this mean quan or city must you learn of a perfect whole wa kni ter, and best by the teaching of some good evil Physician.

Of colours I have spoken before suffici the

ently for their varietie.

CHAP. VI.

What a perfect Urine is, and also how ma ny wayes all parts of the Urine may be altered in a healthful man.

New that you know the difference of such things that ought to be consider

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red in urine, before you shal learn by consideration of them, to judge of the person that made it, how he is disposed in his body: you must first know how many waies the parts of the urine may bee changed in a healthfull man. For the better understanding of which thing, and of all that shall be said hereafter, out I will first define what a perfect whole urine is, which as it betokeneth no grief in it self, so it is a true rule to examine all other urines by that, which are not whole, but declare in them some grief.

A perfect whole urine is mean in sub- A perfect france and in quantity, and in colour pale, whole urine or party saffron, with a white ground, duely Galenc. 1 2 was knit and stable, without bubbles and other Crifib.

ood evill contents.

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So that this perfect whole urine declareth the difference of all other urines; For every urine the more it agreeth with this, the better it is: and the more it different from this, the worse it is, as I shall anon particularly declare.

And here you must mark, that this perfect whole urine is not only taken of a perfect whole man, but also of the lustiest time of mans age, that is at thirty yeers: or more largely, between twenty five and thirty five. For in every age doth the urine alter, as you shall hear by and by.

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The difference of Urine by age in men. groun

Children.

Galen 2. prefag. Hippoc: 13.

Young men.

Men.

Age.

The Urine of children differeth but little they I in colour from pale, or light faffror and the and in substance it somewhat exceedeth ibe el thicknesse the substance of yong mens urine also is and hath much ground in it. And the mortand le they do grow in age, the higher waxeth the diver colour, the substance the thinner, and the le fexe, is the ground. And therefore when age chan most freshest, the colour is pale (so that the these urine of flourishing youth or perfect man hood, is pale or light faffron) and then resteth, and goeth no higher, and the groun of it is mean. But now after that time the more age increaseth and youth decayeth, the more the colour changeth from pale tow ard white, and the ground waxeth leffer an mor darker: so that the urine of old men is this the and white, with little ground, inclining un dep to cruditie.

Of the Urine of Women by age.

Women.

He Urine of women which are tempe I rate in health and in their flourithin youch, dorh decline somewhat from pa and light faffion toward white, and the ful

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flance is in manner thin, but it hath more Young wo be under this flourishing age, the younger ittlethey be, the whiter coloured is their urine, round the more ground it hath; and if they ibe elder, the more aged they are, the whiter Aged woincalfo is their urine, but the ground is ever less men. nor and lesse. And this you may see how both th diversity of age, and diversitie also of kind or le fexe, caufeth alteration in urine, without e change of health; for you must understand all the these ages with perfect health.

The diversity of Urines, according to the times of the yeer.

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T Venas the diversity of ages alters urine, ow Lso doth the times of the yeer. For the an more that the spring time draws toward heat Spring. this the more the urine gathereth high colour, un departing from pale and flaxen, toward pale and light faffron : and the inequality of fubstance changeth into a due equality according to nature, and the ground doth waxe thinner, and the quantity is more in respect to that is drunk: fo that about the midst of the foring they return to a mean.

In the beginning of Summer, the colour Summer. appeareth pale and light faffron, and the fub-

stance

stance mean, the ground white, duly kniries and stable, but yet thinner then a medame ground. And the more that the Summfor proceedeth and draweth to the highest, timake leffer is the quantity of urine, in comparisohose to the drink and the ground, changeth fromine his naturall whiteness to a palish colour arcold a is much leffer and thinner. And this this But co nesse glystereth withall, and inclineth thetwo ward golden and faffron colour. veft.

Harveft.

Winter.

When Harvest commeth, then the co Ali lours do return to a mean again : but thauset thinnels and brightnels remaineth still; this no ground also is still obscure and little, but y Hippoint is white, duely knit and stable. And this E Harvest goeth forward, so the urine retusist parts neth to a mean in all things. exam

In the middle of winter and thereabou cochi the urine keepeth due quantitie, but the coand t lour inclineth toward white, and the groun but c is over great, but in all other points it land t M

mean.

And as Winter goeth on, the substance conte urineappeareth divers, and the colour white meat the quantity greater in respect to the drink duely and the contents greater and unconcoct doth but toward the spring time they return to For i wards a mean as I have before faid. cocte

Yet beside these, also diversity of cour and

kniries causeth diversity of urine, even by the negame reasons as doth the times of the yeer. imfor countries that be temperate exactly, , thanke urine like unto the spring time. And isothose countries that be hot and dry make roprine like unto fummer. And contrariwise, antold and moist alter water, as doth winter. hinBut countries that are drie and diftempered thetween heat and cold, make urine like harvest.

co Also meats and drinks, and order of diet; theauseth urine to alter, and medicines also, drinks and this not only experience reacheth, but also medicines, y Hippocrates Witnesseth in the sixt Book of d his Epidemies, (or raining sicknesses) in the tuffit part and the fifteenth fentence, as for example: Those meats that are light of con- Meats of ou coction and good in substance, cause good light concoand temperate urine with pure contents; coction un but contrary meats cause discoloured urine,

t land thin, with strange contents. Meats that will not concoct, make leffer Meats of edcontents, and divers in substance. Evillhard conmeats cause greater contents, and in nothing coction. in duely formed. And as the quality of meats doth alter urine, so doth the quantity also. to For if a man have eaten much, and not concofted it, his urine shall be thin and white, and sometime without ground. But if this crudity

The Judiciall of Urine. crudity (or rawness in stomack) continuer long, the urine will become divers in father stance, and in contents.

Drinking of wine.

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OF Also wine drunk abundantly causeth teration in urine.

Fafting long.

But now contrariwife, if a man doe fire long, his urine will appear fiery and faffin ton coloured, and thin with leffer ground.

Suffering of famine.

But if a man suffer famine, and do n nourish, his water shall be thin and will he with a certain gliftering, and with ground.

Labour.

cha Moreover, exercise and rest changeth cor rine: for through excessive labour, the uninc changeth from light faffron, and at lengta becommeth faffron coloured, with lither ground, thin, and higher coloured then cli should be. And some time there fleet go on the top a certain fattness, specially afthe overmuch wearinesse.

Reft.

But idleness and rest doth contrariw cause white urine, with greater and groff ground.

Sleep. Watching.

Furthermore fleep, and watching, if the exceed measure, they alter urine; but the of is a difference between both floore of is a difference between both sleepe alat watching comming of fickness, and the both when they be taken willingly in heal For if that fickness cause overmuch sleet

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ontinhen is the urine whitish, with substance ei-in su her fully thick, or but partly thin, and the

nfeth ontents many and undigeft.

But if that fuch fleep come naturally the Naturall loe firme is not so white, but rather flaxen, and sleep.

fafficence ? with greater and well toncoct contents.

And likewise they that have watched Voluntary do purposedly, and not by reason of sickness, sleep. which heir urine is but little changed. But if they with watch for any fickly cause, their urine will watch in fickness.

geth continuance the contents will be dispersed, e urand at the last clean wasted, and the sublengtance of the urine waxeth thinner and thinh lither, by little and little, and the colour inthen clineth either to white and watery, or unto Heete solden saffron, oylie, or black, according as y an the cause is that maketh it so to change. of alteration by complexion, I will write

Now have you heard as touching alteraif the tion of urine in health, according to diversity of ages, both in men and women, times of the yeer, countries, meats and drinks, it the labour, rest, sleep, and watch: so that health you must have regard to these in all judgements both in health and in sicknesse. For the fithese be not diligently marked, they may caule

cause great error, as you may well evou o ltera

First therefore, in every urine you reive be confide- confider, whether it be a mans or a women (red in urine and what age he or shee is of, then wou m time of the yeer it is, and what counthe es what meats and drinks the person use. and likewise of labour and rest, sleep Yo watch: And then must you consider be fou every one of these doth alter urine: so things if the altering of them from that healthnade urine (whereof I fpake in the beginninherbs this Chapter) be but such as one of thities: foresaid things would cause, then may it and the be judged to come of any discase, as for as m

High coloured water in summet b (fo that it pals not faffron colour) or wBut if coloured water in winter, should rather hey c reckoned to come of the time of the ydivers then of any fickness: and likewise of odoeca things. **fublta**

CHAP. VII.

where the di it felf,

What be the generall qualities that alrease in the parts of Urine. Bu for th

Before I treat of the fignification of these parts of Urine, I think it good to instructed

coon of the generall qualities which cause all literations in urine: whereby you shall pera reive not only what every urine doth betoomen (as I shall anon set forth) but also if a wou mark well this Chapter, you shall see anthe cause why every urine doth so signiuse.

P You shall understand therefore, that there r be four chief and only qualities, whereof all o things that are both in the Sea and Earth are lithmade: as man and beast, fish and fowl, trees, inherbs, stones, and metrals. These four quathities are heat, cold, moistness and driness: it and these four continuing duly tempered or as nature ordered them first in every perimtect body) be the cause of continuall health. wBut if they bee altered wrongly, then doe herhey cause diseases diversly, according to the ydiversitie of the alterations : And as they ordoe cause diseases, so they change the colour, substance, and other parts of the urine, whereby wee may conjecture the cause of the discase; and so consequently the discase it felf, though sometime it declareth the dillinease it self, and not the cause thereof.

But now to come to the matter meetest Passive and for this time, you shall mark that two of active quaff these four qualities are named Passive, and lities.

Anthey cause but small alteration in compari-

fon.

on. The other two are called Active, an they cause greatalteration.

The Active qualities are heat and cold pu and the Passive qualities are driness and moiltness.

Moistness.

When Moistness therefore exceedeth lone, it dulleth the naturall colour of uring little thicketh and ingroffeth the substance, and increaseth the quantitie. And as the over ther part of it above waxeth rough and trouble then so the ground increaseth and continue cold raw and unconcoct.

Dryness.

But drynels doth diminish the quantit then of urine, and also the contents: It make conj it thin in substance, cleer and bright, an faide causethmean colour, and the ground apper loger reth groffer.

Heat.

Likewise heat, if it exceed measure buthat little, it maketh pale and light faffron cotton, lour in the urine. But if heat exceed great greater ly, it causeth golden and fasfron colourcause with mean substance, and a little brightnes howb the ground is mean, in respect to the quantrief whiteness toward saffron colour.

Cold.

But cold on the other fide maketh urin he ur france from a mean. And if the cold in colour crease, the urine will alter from mean sub omew

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stance, and therefore consequently will bee either thin or groffe. If it be thin or unol pure, the ground shall be either obscure and little, or much, and that divers and unconcoct.

And this is the working of these four qua-lities when they exceed alone.

an But and if two of them exceed together, ve there may refult of that fort four other dile temperances; as hot and dry, hot and moift, cold and dry, and cold and moift. Now Compour what alterations these and every one of distemper them doth cause the urine, you may easily tures of conjecture, if you keep in mind that which I an faid of the four simple qualities, and so adde

And this must you remember therewith, by that where they both agree in any alteragreater: and where they be contrary, they cause the alteration to be nearer to a mean: neshowbeit somewhat to help you, take this pan orief declaration.

du As a temperate man doth make that per-

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fect urine, written of before, (in Chap. 6.) (o A temperighe urine of a fanguine man (which is hot rate man ubind moist) shall be yellow, or light saffron intoloured, by the reason of the heat, and ub omewhat gross, by reason of the moisture.

In

The Judiciall of Urine. on. The other two are called Active, an they cause greatalteration. The Active qualities are heat and cold and the Passive qualities are driness as moistness.

Moistness.

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When Moistness therefore exceedeth lone, it dulleth the naturall colour of urin thicketh and ingroffeth the substance, an increaseth the quantitie. And as the ove the part of it above waxeth rough and trouble fter so the ground increaseth and continue cole raw and unconcect.

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Heat.

Likewise heat, if it exceed measure buthat little, it maketh pale and light faffron cotton lour in the urine. But if heat exceed great great ly, it causeth golden and faffron colon cause with mean substance, and a little brightneshow the ground is mean, in respect to the quan brief tity of urine, but it declineth from the du As fect u whiteness toward faffron colour.

Cold.

But cold on the other fide maketh urin he ur turn to white colour, and changeth the fubind m stance from a mean. And if the cold intolou crease, the urine will alter from mean sub omey

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stance, and therefore consequently will bee either thin or groffe. If it be thin or unpure, the ground shall be either obscure and little, or much, and that divers and unconcoct.

And this is the working of these four qua-

rin lities when they exceed alone.

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But and if two of them exceed together. ve there may refult of that fort four other dible stemperances; as hot and dry, hot and moist. mer cold and dry, and cold and moift. Now Compound what alterations these and every one of distemperantit them doth cause the urine, you may easily tures of ker conjecture, if you keep in mind that which I an faid of the four fimple qualities, and so adde per together the alterations.

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uan brief declaration.

du As a temperate man doth make that perfect urine, written of before, (in Chap. 6.) (o A tempearin he urine of a fanguine man (which is hot rate man. fubind moist) shall be yellow, or light saffron intoloured, by the reason of the heat, and fublomewhat gross, by reason of the moisture.

man.

A cholerick In a cholerick man (being hot and dry the urine shall be in colour as in a fanguin man, but in substance thin, by reason of the dryness.

A melan-

The urine of a melancholy man (whose na colike man. ture is cold and dry) shall be white through the cold, and cleer for the dryness.

A flegmatick man.

The flegmatick man (which is cold an moist) maketh urine white through cold, and w thick by the moisture, for as heat and col un altereth the colours, fo dryness and moistin w changeth the substance. Now if you have the remembred all that I have written before T then shall you be the meeter and better th ble a great deal to perceive the reasons pe the tokens which vrine doth give, And the shall your knowledge be the more certain tes if youknow not only the thing, but also the cause of it. Now therefore will I wri all of the fignification of the parts of urin Bu particularly, that you may perceive the in first, and chief commoditie of urine which det worketh for mans health.

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CHAP. VIII.

The fignifications of the parts of Urine particularly.

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Told you in the fixt Chapter of this Book what urine was most perfect, found, and an healthfull of all other. And I faid, that it d,an was the rule and tryall to examine all other col urines by, fo that the neerer that any urine ifth was to it, the better it was ; and the further hav that it declineth from it, the worse it is. efor This I faid, should be as a generall rule, which ter's thing to be true in healthful men, you may ns perceive by that I have written already. And and that it is also true in sick men. Hypocraread tes, witnesseth, saying, That Urine is beft, so the whose ground is white, duly knit and stable, writ all the time that the sickness prevaileth. urin But Galen to supply that that is understood th in this faying, and so to make it perfect, adnich deth thereto, That it must be of colour partie golden or pale, and of a mean substance between thick and thin. And also in these things is required stableness, to make it a perfect Urine; for that which is unstable in A Alany part, in that it is not perfect.

Here were a place to speake of the difference of this changeableness or unstableness;

for there is one fort called ordinary, and an ter other called unordinarie, and of both their coc are there divers differences. But because con they depend of an exacter judgement the fire unlearned men can well attain unto, I over begi pass them for this time, and will declare the perf other differences of urine, whereby it alto calle reth from this mean urine, in all parts part and cularly.

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And first I will begin with the substand fie,s of urine, the which (as I faid before) is a Ana three kindes, thick, thin, and mean.

A mean urine is that, that is in the mid frum dle between extream thick, and extreamam thin. And as it is mean between them patie substance, so is it mean in signification, to Fu it doth betoken (of it felf) only good temit al perance and health. But the other two bets for ken distemperance and default of concodirent on, and that diverfly, according to the dive alrea fity of the causes of them, as you shall no doth if he confequently hear.

First to speak of thin urine, either it doth still then Thin urine, continue thin, as it was first made, or else it doth she ly waxe thick and troubled. That that doth contin ftill thin doth betoken lack of concoction, and fodd thing the other also; but yet this that continueth thin bethe kencth more lack of conoction, for it betoken have that nature hath not yet begun to concoct. Ahis u therefore is that water, a fign of extream crue nost or rawness in nature. But that that waxeth thick,

furine.

and ter it beginneth to cool, though it betoken lack of conheld coction, yet doth it declare that nature hath begun to aut concoct alreadie, notwithstanding it is an evill urine, for it signifieth that nature hath need not only of great then strength to perform that concoction which she hath ver begun , but also that there is required long time to the th performance of the same. For the which cause, Galen alte calleth this, Of all Vrines the worft.

Thus have you heard touching crudity and concoction, what thin urine doth figniand fie, so that all thin urine betokeneth crudity. is a And beside that doth further betoken (as witnesseth Hypocrates) gatherings or apomid stumations in the nether parts of the bodie, rea namely, if it continue so very long, and the m patient escape death.

for Furthermore, if fuch thin urine have with white. temit a light whiteness, it is a very evill fign. bett for if it be in a burning ague, it is a token of coeffrensines. But if the patient be fransick ive alreadie, and the urine doth fo continue, it no doth most commonly betoken death. And if he escape death (the which is seldome seen) fill then shall he be long fick, and escape hardly.

Thin urine also betokeneth divers other things: as the stopping of the reins, and of bothe water veins. And likewise, if a man oken have had much bleeding, or laxe, or piffing, his urine will be white and thin, and alick, most without ground : Like manner in old

Thin and

age, and long weakness of fickness. Also in terr young children if it continue long, it is a car deadly fign. mu

Yet thin urine doth sometime betoken the end of fickness and recovery of health : as ons in Agues (namely quotidians) if at the be-fuch ginning of them and fo after, the urine did . I appear thick and troubled, and especially if dot the colour amend therewith. fach

And if it be thin in fubstance, and of flaxen T colour, then is it better then thin and white is fi for because the colour is better thoughthic the substance bee all one; so that thought in it betoken some weakness and lack of conthat coction, yet not so much as doth the other that they shall be the column in the state of the sta for the colour is meanly concoct: that is to cont is bu fay, naturall heat is meanly increased.

But if it be thin and golden, it is yether more better then thin and flaxen: for thehat colour is more exact and this betokenedly be concoction half compleat, for that whicher !

it lacketh in substance, it hath in colour. inth

After this is there thin and faffron colouand red, which betokeneth first lack of concochither on, and beside that default of nourishmentyet as in a young men that fasteth long: Anthou sometime it betokeneth that excess of hetron in the inner parts of the body, doth can A cholerick humours to abound, as in the few doth

hin and

golden:

Thin and

Thin and faffron.

in tertian. Beside all this, it betokeneth thought, is a carefulness, and watching, and also overmuch labour, and taking of heat in the Sun.

ken And thus have you heard the fignificati-: as one of thin urine, both alone, and also with

be-fuch colours as it can be coupled.

did Now shall you hear what thick prine y if doth betoken, both alone, and also with fach divers colours, as it may be coupled.

xen Thick urine (which is, fo I mean, when it Thick, ite: is first made) either it doth continue still oughthick, or elfe it doth fettle, and waxe clear. ought it continue still thick, it betokeneth that

conthat disturbance which was in the bloud, ther that is to fay, the rage of ficknesse doth still is accontinue frongly: and that naturall strength

is but weak. This urine is not fo good as yethat which doth fettle and waxe cleer. For thehat doth betoken that the difease shal short-

nelly be overcome: howbeit there remaineth thicket somewhat of that distemperate trouble

in the blood : yet nature hath the over-hand olouand expelleth the matter of the grief, and offitherefore is fuch a urine called good, but nemyet it berokeneth some lack of concoction,

Anthough not fo much as that which continueth f hetroubled and thick still.

cau Alfo thick urine (if it be exceeding thick) tendoth betoken death, as Hypocrates faith, rtia And

The Fudicial of Urine.

And the urine that is thick and troubled, limot beafts urine, doth betoken head ach, eithealfo present already, or shortly after to come da If thick urine appeare in an ague, wherehan thin urine went before, it betokeneth thefters the fickness will abate straightwaies, for N declareth that nature hath overcome the malour ter of the fickness : but if it appear thick doth the beginning of the ague, and do not wa fign

thin in process of time, it betokeneth plen spec of matter, and weakness of nature; so the colo

there is fear left nature should be overcom dea except the colour do amend.

36

Thick urine also betokeneth openne tok Thick and of the water pipes and reins. And if it be time thick and white, it betokeneth great plen wil of raw humours, and fundry kinds of fleg by to be gathered in the bodie: and betokene do allo (namely if it be much) that those gath rings, which might be looked for in fo do agues shall not enfue, for the matter while ite should cause them departeth out by uring wi but the whiteness of this urine is bright be fnow. For if it be somewhat darker li ha the whiteness of milk, it is a token of the stone, either in the bladder or reins, name If if fuch urine chance in the end and amendi ha of fickness.

But if the colour of it be grey, it betokend ni

cr

Grey.

d, limot only plenty of matter in the body, but eithelfo that the whole body is possessed with come dangerous sickness, whereof oftentimes it whe chanceth the patient to break out with blinh these and heat in his skin.

for Next after this followeth thick claret co-Thick and

for Next after this followeth thick claret co- Thick and emalour (for flaxen, yellow, nor faffron colour claret, nick doth not agree with thick prine) and it doth was fignifie that the disease shall continue long, plen specially if the ground of it be also of claret the colour. But yet this disease without perill of com death.

Thick urine, if it be red coloured, doth be- Thick and note token abundance of blood, as as feen in con- red. it be tinuall Agues, and in all perillous Agues, as witnesseth Theophylus. If this water come she by little and little, it is an evill token, for it end doth alwaies declare danger.

And if that fort of urine (in fuch Agues)

do waxe troubled, so that there come with

it deafness of hearing, and ach of the head,

with pain in the neck and in the sides of the

belly, it betokeneth that the Patient shall

have the falling evill within a seven night.

And if a thick urine have a crimfon colour, Thick and med If it bee burning Agues, and the Patient then crimfon have the headach, it betokeneth that a chief criticall fign either is then present, or else entire night hand.

Buc

Thick and

But if the urine be thick and blew colorous red, it signifieth diversly, as the persons all her that made it. For in them that are in wild, of recovery, it betokeneth that they hadly escape their grief. It fignifieth also pricar in the water-pipes, or elfe that the partien bath runn much.

And if it appear fuch in old men, and thoreo continue long, it declareth not only that thich bladder is infected with evill humours, b An commonly also that he shall be rid of the ons But if it come after the grief of the Itone, burs declareth that the griof shall be turned in N one,

the strangurie.

Thick and ash colou-

black.

Thickurine and green, namely in Agushen is a token of the yellow Jawnders, eithether prefent, or ready tocome.

T

I

Thick urine and ash coloured, if it appearow in Agues and do not fettle, it is a fign of mad that neffe, But in the burning Ague, it betokes cold eth that the strangurie will come shortly. colo

But if a black colour appear in thick urine hear it betokeneth sometime well, as in the end of the Fever Quarten, and of melancholike per madness, for it betokeneth that the melan itis cholike matter, which caused the diseases the doth avoid out.

But formetimes it is an evill token, for it all fignifieth that either the blood is burned through

colorough exceeding hear, or else that natucolorough exceeding heat, or else that natuons il heat is clean quenched through deadly
in wild, and therefore is commonly called a
by shedly sign, namely in sharp Agues, if it
is pive an evill savour. And so meaneth Galen,
par hen he saith, that he marked, The thicker
at a black mater is, the morfe it is, and
if thereover, That he never saw any escape,
at a bich made such Urine.

b And thus have you heard of the significathereous of thin and thick urine, with such coone, ours as may be coupled therewith.

Into Now will I write a little of the colours a-

ing Now will I write a little of the colours aone, and of such tokens as come chiefly of gu hem, rather then of the substance or any ithe ther part of the urine.

The colours of urine declare commonly, Colours of perhow heat and cold do reign in the body, fo urine.

nad that the whiter the urine is, the greater is the ken cold, and natural heat leffe; and the higher

coloured that the urine is, the greater is the ine heat.

But to speak particularly, that you may White. end like perceive it the better. If the urine be white, an itis a fign that concoction faileth quite, and les, the lighter coloured, the worfe.

Pale colour is better somewhat, though it Pale

in also declare lack of naturall heat and strength.

igh

and flaxen colour, though it betokeneth Flaxen. beginning

beginning of concoction, yet it is not phat hat feet: howbeit it may be well taken, if all rine it ther figns be good.

Pale, light

Pale and light faffron (as you have he key a before) are the best colours and most temps are rate, which betoken exact concoction. pecia

But golden and faffron colour declare de congt

Golden

Claret red. Crimson Purple. Green oily.

Claret is next, and then red, after it criments fon, and then purple, then green, and lof the of them is oily urine, which as they goe into ingeder, so they declare greater and greater houstin with increase, not only of the qualitie, bunge also of the matter containing the same.

Blew ash-

But now of the other fide, blew urine, a head ash colour, are tokens of excessive cold dame formetime with matter, and sometime with for a out; and so likewise of black urine, how be concern to the concern formetime of excess of heat.

But how you may know the difference hum both of it and all the other, now will I she B in order, with the rest of their signification bee

White urine, if it come in great quantity earn in a whole man, it betokeneth much drink ther ing of thin wine.

But if it be mean in quantity, with a duground, it declaretheold distemperance of white the liver. The urine doth appear white, with the adis-form and unconcocted ground, in the of the contract of the contr

White.

chi

or hat have the dropfie. But in old men, white fall rine is no great evill fign, as you may per-eive by that I said before of Ages, how he hey alter urine. But in yong men, and such emisare of freshest age, it is a worse sign, and n. pecially if it have either no contents, or reasses evil contents. And if urine continue ong time white without changing, it betoong time white without changing, it beto-critereth painfull beating of the head, daselling and lof the eies, and giddiness, and also the fal-incing evill, lothsomness of good meats, and housing sometime after evill meats, greedie housing, pain in limbs, and painfull moving of the sinewes, and divers griefes of the except and reines, and also pain in the fun-color dament, and great weakness by sickness, with for all these doe follow continually lack of whencoction, either cold, or stopping of the urines and conduct, or transposing of the

na humours. her But the differences of these cannot easily ion bee known of every man, yet such as are tity earned may gather certain distinctions of inkthem by the accidents which follow dif-

du Dark white colours, as milk white, white, hornwhite, e owhite like horn, and grey, If they appear in gray. vit the beginning of Agues, and in the increase her of them, they doe betoken much pain. But chu

in the decrease of Agues, they declare he me especially if it come plentifully.

Pale, flaxen

Pale urine and flaxen, do not light ellow pear in Agues, except they be easie A othar and short, as those which continue but elf, day, but if that it do follow after but uality Agues, it declareth that they be fully due to ved.

Pale, faffron, As for pale and light faffron, they are the of I said before) the best and most perfect whole lours, namely, in young men and form youth. But inold men, women and child hem (whose urine, as I have said, declineth also ward white and pale) it doth betoken through their bodie is too hot, either by reason their diet, or else of their exercise. But as much as it is but mean excesse, it declar but small grief.

Golden faffron cobe either somewhat thin, or very thick, corruther is hath no ground, or else very few, goeth dark contents. But in this they differ, thoth golden urine declareth excess of heat, source matter also, by reason of meats, sharp me gendicines, chasing of the bloud through angred cheat of the bowels, or else heat of the mobbe of the yeer.

But faffron colour appeareth rather wired li default of matter, through some affection into the mind, watching, heat of the sun, labour, and such like things, which increase thin and the ellow choller, and diminish naturall heat, Ato that the cause of this colour is choler it out elf, increased either in quantity, or else in but utilitie. But in old men and women, and dehother, there is some greater cause that ecasioneth it, for it signifieth an Ague commerce of saffronly choler dispersed through the ed whole body; after which there followeth dispensely giddiness, headach, bitterness of hill hemouth, lothsomeness of meat, thirstiness, eth also in yong men, such urine is caused en brough much exercise, and use of hot meats:

Of Claret, and red Urine.

for

Bu

Laret and ted urine is coloured either of Claret, if the mixture of red choler, or else of the urine. ick, corruption of bloud; such urine oftentimes w, goeth before Agues. For when the blood, thoth so abound, that it cannot be duly laboured, nor can take no ayre, there is entered a certain corruption, which as it is ingred of colour it self, so it causeth the urine the bered in colour if it be much, else it makethonly claret colour. But if it be exact wired lik grain, it betokeneth that bloud issueth on into it, out of some veins nigh to the reins, which

in the decrease of Agues, they declare hehe m nd fe especially if it come plentifully.

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Pale, faffron.

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Golden faffron colour.

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which either are broken, or other wait have pened. But how it may be known i mo whence it commeth, and how, there are for ny means to fearch, but because they are urin light to perceive, I will referve them for ! wha ficians that are learned. This colour dineed felf is no great evill fign, namely in yo to h men, for it betokeneth excess of bloud, wi rinc may well bee born of them. But in old reaf it is a very evill fign, for it betokeneth and ther long fickness, or else death, fith nan But is fo weak that it cannot keep in her nan crim And if that red colour, com corr red choler, as it doth in young men, for doth most part and not of blood (which thin com learned Phylician may conjecture parely thirl the former diet, and other figns more) are accidents shal be the more troublous; ho Agu beit yet not fo evill, as when it comment the faffron or golden choler, for this cauld He greater thirst, and more troublous sleep the time colo the other.

Of Crimson colour.

Crimfon colour.

Rimfon colour is a token that the go humours of the bodie are burned, 1 good turned into red or black choler, which can worfegriefs then the other; howbeit if And

T

wait have a good ground, the grief is the more on a moderate: But if it have either no contents are for a space, or else evill contents, and the y are urine appear like a thick myste, but somefor I what gliftering light, it is a fign that nature ar a needeth fuch strength to recover her selfe yo to her own state. Norwithstanding such u-, wi rine is caused sometime in whole folk, by old a reason of much labour, and long journying, neth and then it hath some good signs therewith. nan But in them that have a sharp Ague, such nan crimson colour of urine doch betoken that om corrupt blood doth abound, and that it or doth putrifie, and turn into choler. And hin commonly they that make fuch urine, doe ely thirst much, and are dry in their mouth, and ho Agues, and are half distract, and feel pain of eth the liver with coughing.

times as well good as bad, according as the colours do change to better or worfe.

Of Turple Colour.

Purple colour declareth need of much Purple coftrength before it can be altered to a lour.

This urine is a fign of burning choler.

And if it do continue very long, it is a token

of

of the yellow Jaunders, with abundance fre gross and corrupt choller, gathered in the ver. And at the beginning there goeth w fro it some spices and grudgings of the Ag ligh with a little thirstines; but unless there fear discretion used in the diet of such a Patido it may turn to a much worse disease.

Of Green Urines.

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tha

one

of

Green colour.

Reen colour is an evill and a danger Itoken, for it needeth not only long tin but also cotinual strength to bring it ag star to a good trade. The higher that this col is, the more it declareth that choller exce and is th eth the other humours : which if it be oft more burned, will cause black urine, col which I will anon speak. But if green is a lour come of wasting of the fat, then is For fomewhat like to oylie colour, or popin green: but if it come of abundance of pur lish colour, and through increase of his a cre litie, then doth the colour incline more ward black, and gliftereth with shadow green, drawing very nigh unto black. At urin green choler followeth madness, parbre fatt ing, and avoiding of choler, fometimes with matter, or else burned : and also continu thirstiness, and burning heat of the tong app **Araigh**

lance Graightness about the stomack. And like othe ther things. But if the patient continue the strong, and the colour of the urine do waxe. As lighter, there is good hope, else there is great nere fear, least of the dryness and burning, there Patis do follow contraction of the finews, which will kill the patient.

Of Oilie Vrine, or Popinjay Green.

gen Ylie Urine is of three forts, as I faid Oilie urine In the fift Chapter, that is, light oylie, or popinjay g tin in the fift Chapter, the

col Oylie urines are a token of unnatural heat. excee and the higher that the colour is, the greater be sis the heat. And also they betoken melting ne, of the fat within a man, for of it are they fo en coloured. But at the beginning, when there en is a little fat melted, the urine is light oylie. pin For if it look stark oylie, then it fignifieth that the disease increaseth. But if it come once to dark oylie, then is the disease fore inre creased. Hippocrates in the seventh Book don of his Aphorssms speaking of fatness in At wine, faith thus : Who fo maketh wrine with ore fatty flotes comming much and fast, they

whave harp pains in the reins.

Which sentence though it seem more to appertain to the contents then to the colour,

yet doth not onely Galen, but also Acinbefore Actuarius, and also another Grecian, (Who Alt name I know not) expound it amongst causes lours: and by it declare the difference beitit know whether that wast or melting party fat be in the reins it felf, or in other parts and br the body. For if it come fast together, belpo Hippocrates faith) then commeth it from troken reins it felf, and betokneth the wasting Ur be in them. But if it come foftly and incre time by little and little, then doth it declare theime the whole body is overcome with one diffin turall hear, and that the fat of it doth wall der o it doth betoken (as A&. witnesseth) a wa that his u ing Ague, confuming the body.

Of blew Urine, Ah colour, and Black. then beto

Blew colour, Ash-colour, and Blad fore do differ only in lightness and darkness fie e for ash-colour is darker then blew: as it be black is darker then any of them both.

Is a lightness and black is darker then any of them both.

Blew co-

Blew colour fometime cometh of mode blace rate melancholy, and then is the urine form what thin in substance. And sometime is land commeth of great cold, and then it is this in substance. And sometime it is a token fuel mortifying of some part. Yea, and sometime even of whole nature: namely, if the colour pur change to worse and worse, and there were before solutions.

feripefore no token of concoction.

who Ash coloured urine commeth of like Ash-colour.

the causes, and betokeneth like things. Hownee beit it is so coloured many times, when the new party that made it, hath been fore beaten arts and bruised. But in this you need not the er, help of urine, for you may see the walts and

m tokens of the stripes in his body.

ng Urine which is extream black, some-Blackurine.

the time extream cold, the which both you may son diffinctly discerne, if you doe observe orward der of alteration in the colours of the urine. Was that the patient made last before. For if his urine before were green, or like thereto, then doth the black urine which follows it, betoken extream heat. But if it were last believe fore blew or ash coloured, then doth it signifies fie extream cold. This black colour though it be commonly an evil and deadly sign, as I said before, (speaking of thick urine and black) yet sometime it is a good token.

For in all diseases lightly that come of melancholy matter, it betokeneth that the matter doth avoid, and so the sickness to end. And such arine doth appear many times after pargations or other meats and drinks which purge the splene; namely, if a man do labour upon them, that was before diseased of the folcen.

E 3 HowHow beit, fometime meats and drinks of little colour cause black urine, as Galen witnesseys namely, after dark red wine, and Allegan, he o

But in moderate Agues, if such black this rine doe appear, it is a token of death, exceptitit be on some Criticall dayes. And likew tolk in sharp agues, especially if the tavour igreathrong and straking : unless it come of some grief of the bladder

Quantitie of urine.

Let this suffice for this time, as touchis pake colours. Now for the quantitie of urine, fran when it is mean, it is a good token: fo whand it is either too much, or too little, it is an rine vill fign, except it come of such cause, (as shewed before) that altereth urine is fes healthfull man.

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Much in a whole body.

As first excessive quantitie of urine, con me meth of much drinking of thin wine, as Re nish wine, and such like. But that shall yo thus know: for the colour will be whith ly, and the substance thinner then a mean the contents also will be divers, and north ly knit. Likewise if there be aboundant of raw humours in a man unconcected, an yet nature persevering strong, then is the great quantity of urine, and somewhat the of substance, but not so white as the other and the contents of this are better. (as Hippocrates faith) much Utine made

4. Aph. 3.

s of libenight, is a token of small sege; so that if nessee by impediment let naturall sege, then will egam, the quantity of urine be the greater. But in lack this as the colour is mean, so is the ground except the greater and groffer, yet in healthfull kew tolk may the urine, by another means also be our greater then a mean, and that may be by of some dicines which provoke urine, but then is the colour more naturall then the last that I uchi pake of, and the ground is thinner of fubine, sance, so that it is dark and scarcely seene, whand then is there a certain glistering in the usan rine it self.

(as Now contrarie waies, and of contrary cau- Little urine is les cometh small quantitie of urine. For it in a whole cometh sometime of lack of drinke, or dry body. con meats, and then is the colour light faffron, Re with a smal ground, but yet somewhat gross. ll ya Also both meats and medicines that are thin clammie, and apr to flop the water-pipes, do cause little urine, but then is the ground ord also little and thin.

land Besides these, much sege causeth urine to an be leffer, for if the one excrement be greater then nature would, the other must needs be leffe, if the body be healthful. In this urine, as thi he you may partly know the cause of it by the knowledge of the excessive sege, so will the urine it self be thinner, and the ground very

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dark, thin, and not duely knit. And the many waies may this alteration appearing

healthfull body.

Diabete.

Now in a fick person, much urine eith Much urine betokeneth the dropsie, and then is it li water, with a raw and diverse groun or else if it be white, thin, and without ground, then doth it betoken the piffing vill. And this urine (as witnesseth Galen in his first Book of Judicials) is the work any other of like fort, I mean which decla lack of concoction, for it declareth the decr yea I may fay, the atter extinction of tw naturall powers, that is, the retentive power and the alterative power also.

Much urine, in colour fierie, and light is fron, or of any like colour, is to be feared namely, if it be coupled with evill content But if it be of crimion or purple colou and fo proceed, especially if no concoction went before it, then doth it encline to evil and betokeneth a certain mortifying and w sting of the whole composition of the body

But if much urine come in an Ague, name ly toward the end, and that there went be fore it little urine, thick and ruddie, then i 4. Aph 69. that a good token, as witneffeth Hypocran for it betokeneth the Ague to be at an end And this Urine will bee white and this

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moderately, and will have a mean ground.

Now little quantity of urine, with a groffe Little win ground, unduly knit and unconcoct, is an e- in a fick be vill token; for it betokeneth the weakness of the alterative power, which is not able to extenuate, concoct, neither alter the matter, and therefore doth it with much difficulty pass forth in such grossnes. How beit, if there follow after it a more thinner urine, with the ground well and duly knit, and stable, then is it without fear. For this latter urine(as you heard before) is a token that the cause of the other is overcome and vanqui-

This little quantitie of urine cometh sometime in vehement Agues, and then is the violent heat, cause thereof. Sometime also it cometh of the stopping of the water-pipes, not only through clammy meats and drinks, but also of some disease or grief in them.

And this now shall suffice for an Introduction, as touching the substance, colours,

and quantitie of urine.

It followeth next, to speak of the con- Contents. tents which fo greatly help to the right judgement of utine, that Hippocrates (in his fecond book of Prognostications) doth by them only; yea, and that by one of them (I mean the ground (pronounce the judgement

of a perfect urine ; faying, That that is the chi bef Vrine, which bath his fediment ground, white, duty knit and stable, and the continually all the time of the sickness.

Now feeing this great Clerk and Father of Phyfick, doth thus efteem the ground it shall not seem unmeet, that I orderly de write briefly of those principall things the are to be confidered, as touching the con tents; and first of all of the ground, which hath alteration (as you have heard) both it substance, colour, and quantitie.

But now as touching the substance? then is it only mean, when the third concoction in the veins is perfect. For the ground is the excrement (as you might fay) of that third concoction, and is like in forme to matter, fave that it is more duly knit together then is matter, and doth not finell fo evill a it; or elfe you may liken it to thin fleam.

This Ground is then grofs, when the veins are replenished with raw humors, Howbeit this groffeness or thickness is not al-Wayes an evill token; for sometime it is a fign that nature bath prevailed against the crude humours which caused diseases, and doth expell fuch superfluous excrements And that shall you discerne by the goodness, of the colour, and also if it come in the de-

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is the clining of the fickness : for it it come at the beginning, either in the increase of the ficknd the nels, then are they to be suspected as evill; especially if they bring with them evill co-Father lours,

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round A thin ground, being also pure, and so Thin ly do cleaving to the bottom of the Urinal, that ground. s thu it will not lightly rife, though the urinall be shaked, it is a token of great weakness of e con Which nature in the third concoction, and fuch a othin ground appeareth most in white and watrie urine. Howbeit sometime a thin ground cometh by the reason that the raw humors are extenuate through naturall heat, which getting new strength, doth extenuate and disperse all grossness of raw humors within the veins. For the propertie of heat, is to knit and bind together thin things, and to extenuate and disperse grosse and raw things.

> Now as touching the colours of the Colour of ground, the perfect ground is neither ex- the ground ceeding white, neither yet pale, but mean between both, for if there appear any fuch excessive white, then is it some rag of phlegmatick matter, or elfe matter extreamly concocted, which commeth from some inward member being fore and that you may discern (as I said before) by the toughnes, And and by the favour.

And if any man be defirous to know the red cause why the ground is white of colour of let him remember, that the ground is the the superfluous excrement of the bloud being is perfectly concocted in the veins. Now fick that the bloud it felt, when it is exactly confit n cocted, is turned into a white, or at leaft, with party white colour, you may conjecture by tok the generation of milke, and also the feed of nig man, yea, and of matter, which all three and rise nothing else but bloud, exactly concocted be fave that matter cometh of evill bloud. In ler

And therefore whenfoever the ground hath in it any other colour then white, itis (th no good token : As first, if it be pale and that flaxen coloured, then it is fwarved from his Th right and commendable colour. Howbeit, the yet it may be born as but meanly evill, because that that colour commeth of small ex-

cess of choler.

But if it be more higher coloured by choler, so that it be saffron coloured, then is it an evill token (as Actuarius faith) for it declareth that choler is excessively increased, either by the order of diet, or else by the corruption of bloud, or some other wayes. Howbeit Hippocrates in his Apherisms, seemeth to say the contrary; for he faith, That when the ground is fo colon-

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w the red of choler, especially if at the beginning plour, of the sicknesse it were waterie to sight, s the then doth it betoken a quicke sickness; that being is to fay, as Philotheus expoundeth it, a Philotheus. Now ficknesse, that will shortly be ended, and so con- it may justly be called a good sign. Notaft, i withstanding as in this point it is a good re by token, in that it signifieth that the disease is ed of nighthe end, fo it may be called (as Astnae are riss calleth it) an evill fign, because it doth Aed betoken a cholerick fickness, and that cho-

ler doth unnaturally abound.

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ound And if this answer do not content you, its (though it content Antonius Mu(a) than Antonius and may you fay more better (as I thinke) thus: Mufa. his That if the ground be at the beginning of eit, the fickness coloured with choller, and fo be increase (as Actuarius seemeth to mean) ex- then is it an evil token indeed, for it declareth both the abundance, and also the encrease of tho choler. But if the ground, at the beginning of is it acholerick disease were warry, that is, white or it and thin, and afterward turn to faffron cofed, lour, which is the exact colour of choler : by or else to a yellow colour (which is somether What lefle cholerick) then is it a token that A. the cholerick matter, which before lay lurking in the body, doth now begin to avoid; and so the cause of sicknesse, thus

thus by nature expelled, health must need follow.

As contrariwife, if after yellow or defp fron colour it change unto whiter, and the all be no certain token of concoction, then it the an evill fign, and a token of phrenfie. Hot ma beit, if there be any token of certain co rim coction, then is the fame a good fign, that if you take heed, you may perceit of here what a necessary thing it is to obser extorder in the alteration of urine, of whit the I have partly spoken before.

Claret colour. Bloudie.

Now therefore to goe on If the ground bee of claret colour, either rede blew, the token is not good. For these blog fic dy colours come either of too much abou w dance of bloud, or else by reason that the ly, retentive power is fo feeble, that it canno keep in the good humors, but suffreth the to run out.

Claret red.

Claret colour and red, doe betoken a cer rain default of concoction in the veins, an that through the excels of red choler. Bu yet this default is but mean and without danger, feeing that the hurt is only by quan tity, whereas fome other do hurt both by quantitie and qualitie also.

Bloudic.

Bloodie grounds are altogether work then red (though they be better then alb

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t nee coloured, and black) for they betoken that the bloud is nothing duely wrought, or despecially if their quartitie be much, withd the all, for then the quantity of matter doth let en it the powers to work, which thing yet as it Ho may be born, fo it declareth need of long n co time to recover health.

gn, But if this doe come through weakness of the powers in themselves, then is it an observe extream evill sign: for it betokeneth that which the powers are overcome with weariness in working, and be not able to keep in the good and profitable humors. Which thing red to difcern more exactly, you shall take artiblo ficiall conjectures by other circumstances, which give also tokens of judgement; namely, as by the age of the person, by his order anno of dyet, and such like.

the Now to make an end with the other co- Blew. lours which are of a dark hew, as blew-afh- Afh-colour, R CCT colour and black: These of all other are the Black. , and worst, and most envious to nature, and the nearer they cleave to the bottome of the urinall, the worfe they are.

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These colours come of a black melanchoby ly humour, being ingendred within the veins, or else coming from some other part ord into them : or elle it betokeneth deadly mortifying. But sometimes it cometh of fore-

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fore bruifing and stripes, and generally in exfive cold or excessive heat.

And now for a conclusion, what foever or be have faid of the ground, you shall under hamo stand the same to bee spoken of the swin Al and the cloud; for they are in kinde but on the s thing, save that they differ in lightness a ments heft, and therefore also in places: Butt are in judgement of their substance and colour, they much after one rate, though fome diff there rence there be, as you shall hear hereafted groun

Quantitie

And likewise of their quantity, which waies as it is then only commendable when it chance mean, so if it be greater then a mean, it do appear alwayes extreamly evill, for fometime it cochi a token of fatting, or growing to a corpo humo rateness, and that it doth figuifie, if non So other evill fign be coupled with it. Fe der ? though the person feed much on nourishin which mears, and that with rest and an idle life, yo barb naturall heat appeareth fo ftrong, that fhe ca beeit eafily concoct fuch meats. According to or in this faith Galen in his Judicials, that the ly if plenty of the ground in urine betokened it arg certain and exact with concoction : And conco that as the body is repleat with crude frens humours, fo it declareth that those same be good for this cause (saith he) in all children commonly, and in men also which feed much, or bee of some other cause replete with the himors, their urine hath, a great ground.

Also oftentimes it chanceth the pores of the skin to be stopped, so that such excrements as were wont to pass out by them, are inforced to seek a new passage, which they find most readiest by the urine, and thereof are the contents, and namely the ground, oftentimes encreased. And all these waies chance in health. But in sickness, it chanceth many and grosse superfluities do appear in the urine, as often as the natural powers, namely, the alterative or contents of the power being weakned, such crude humours pass out undefied.

So doth it chance (as witnesseth Alexan-Tral.2.cap. der Trallianus) That the urine of them 33-which have the Collick, is flegmatick and bath a great ground. But if the contents beeither great, or gross in the beginning, or in the augmenting of sickness, (namely if the Patient have any notable Ague) it argueth abundance of humours, to the concoction of the which there needeth both strength of naturall powers, with time and good speed.

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fore bruifing and stripes, and generally inc cometh (namely the black) either of exe for five cold or excessive heat.

And now for a conclusion, whatfoever or 1 have faid of the ground, you shall under hum stand the same to bee spoken of the swin and the cloud; for they are in kinde but of the thing, fave that they differ in lightness a men heft, and therefore also in places : Butt are judgement of their substance and colour, they much after one rate, though fome diff rence there be, as you shall hear hereafter.

And likewife of their quantity, which wai as it is then only commendable when it chan mean, foif it be greater then a mean, it do app declare some alteration in man, though no rall alwayes extreamly evill, for fometime it coe a token of fatting, or growing to a corpo hum rateness, and that it doth signifie, if non other evill fign be coupled with it. For though the person feed much on sourishing which mears, and that with rest and an idle life, ye bath naturall heat appeareth fo strong, that she cal bee eafily concoct fuch meats. According a or i this faith Galen in his Judicials, that the ly i plenty of the ground in urine betokened it ar certain and exact with concoction : And con that as the body is repleat with crude fire humours, so it declareth that those same be goo

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ally in expelling out at that present time. And exe for this cause (faith he) in all children commonly, and in men also which feed much, evel or bee of some other cause replete with and himors, their urine hath, a great ground.

fwin Also oftentimes it chanceth the pores of it of the skin to be stopped, so that such excres a ments as were wone to pass out by them, utt are inforced to feek a new passage, which ur, they find most readiest by the urine, and diff thereof are the contents, and namely the ter ground, oftentimes encreased. And all these which waies chance in health. But in sickness, it it chanceth many and groffe superfluities do dor appear in the urine, as often as the natuno rall powers, namely, the alterative or conit coctive power being weakned, such crude rpo humours pass out undefied.

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And now contrary wayes must you judg Little Con of the imalness of the contents, for they b tents. caused either of great labour, long falling stopping, or obstruction of the veins, an fuch like parts, or elfe of flacknesse concoction.

And (as Galen faith) who Gal. 2. pref. the body is replete with crude and raw h Hip. 26. mours, then is the ground great, but if the body be replenished with cholerick humon then is there in the urine either little ground or none at all; but in such case it is-well, there be any sublimation or swim.

arine with-

Now feemeth the place most meet out ground. speak of such urines as have no ground all, nor other orderly content, and that wil I doe by the order of the colours of the u rine, according as Actuarius proceedeth.

The urine that is very white, and exceed ing thin, and so lacketh the ground, dot betoken either some notable obstruction either immoderate cold, or else cruditie and lack of concoction. And as these tokens may be greater or leffer, fo shall the things and which they betoken bee judged in like rate, fact either more, or lesser.

But if the urine bee pale coloured, or flaxen, and then lacketh contents, as it doth declare leffer obstruction, so it doth fignifie a

great cruditie, as the other before.

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And fo shall you judge of urine that is yellow or flaxen coloured. For in them it appeareth, that naturall heat doth prevail. Notwithstanding such things (I mean the default of the ground with those colours) may chance(as often they doe)through vehement pain, immoderate labour, long watching, and also default of matter.

ey b Ring an e o who y ho if the But fuch urines as be higher coloured then these that I have named, by their comours which doe prevail : and also betoken et was a certain putrefaction, and cruditie in the day veins.

Will It chancethalfo sometimes, that some ga-

thering fore being in some of the principall members, by his unnatural heat withdraw thither the matter (even as it were by cupdoth ping) and so doth cause the urine to have no rion ground. And though, indeed, it is never a good token'to lack the ground in a urine, yet kens it is lesse to be complained of, if the colour ings and substance draw nigh to a mean; for in de ground in the urine.

Now to thew you the reason, why it channd beth no ground to appear in the urine : First,

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in case of cruditie, when there wanteth perfect concoction, there must needs want at so the contents in the urine; for they are the excrements (as you might say) and the supersuities of the third concoction. Like wise though concoction be persect enough, yet may there want the contents, if there be any notable obstruction or stopping of the veins, namely, seeing the contents are somewhat gross of substance, and therefore unable to pass, if the way be any thing stops

After the same fort shall you judge of long fasting and default of meat, and moreover of such meats as are unapt to concoct. For in all such cases, there can be ingendred sew

or no contents.

And contrariwife, though nature do work many superfluities, yet if the wombe be so loose that it yeeldeth many seges, then as the urine shall be the lesser, so shall the contents be few or none: for nature then doth expel by sege, those superfluities, which should cause the contents.

And likewise, when there is in any part of the bodie an inflammation or excessive heat, which doth draw matter to it, either that any of those parts are weak, unto which nature is wont to expell such superfluities; for in all such cases there may want the ground,

ground, and the other contents in the urine. And as for some of them (I mean cruditie and opilation) they may be well enough born with al, unles their continuance be long.

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But now again, there is great difference touching the time of the fickness in which it chanceth, for in the beginning and increase of tharp Agues, if the ground be lacking, it betokeneth great weaknesse of naturall Arength, which if not prevented, may continue unto the chief strength of the sicknesse. And after fuch an urine, there doth follow much waking and disquietness, halfe madness and trouble of mind, and all those shall bee according to the greatness of the Ague, either extream or mild. And fometime it is a token that there shall bee a gathering fore in some part of the body, namely, if other agreeable causes come therewith, as a winterly disposition of the aire, with an uncertain state of sickness, and unconstant alteration, and mean weakness of the Patients power. But in the declination of the fickness, such urine ought not greatly to be blamed, for then hath nature rscaped the brunt of sickness, though she be yet weak. Yea, and in the chief strength of ficknes (as well as in the declination) it may feem no Arange thing, if nature (as though already

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ready she had the over-hand) do gather he (truct power together, and draw a little nourishment to her felf, and thereby caufeth little or no ground to appear. But afterward when thee is somewhat refreshed, and doth more liberally nourish the body, then doth she thew forth contents in the urine. And light ly the order of the contents is such, that first there appeareth a cloud, which afterward doth gather more strong and weightie substance, and doth become a swim or sublimation: And last of all, when it hath gathe red a right naturall whitness, and due substance, then will it grow to a ground.

CHAP. JX. Of difform Contents.

Ther things should I here speak of, as touching the Judiciall of the contents, both of their stableness, that is, their continuance in good form, and of their due knitting, being neither tattered, nor dispersed, nor yet overmuch clodded together. because the exact judgement thereof exceedeth the capacitie of mean wits (for whole fake I have written this Book) and cannot lightly be perceived of them, but by the In-Aruction The Fudiciall of Urine.

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struction of a lively voice, I wil for this time overpals the exact and perfect declaration of them referving it to a place more due : And now will I briefly over-run the other things which remain to bee confidered inutine, but yet not without some mention of those other, as occasion commeth; and first thole difform Contents which occupie the place of the ground, and therefore take his Difform name alfo.

Of this fort there are four principall: the firstis in bigness of a small fatch, and red work coloured, which you may call therefore red fatches, because of their likeness. These (as witneffeth Galen) are ingendred of the con- Red fatche sumption and wasting of the flesh, when the fatness is already melaed away. But in this there is great difference, for sometime it is only the walting of the reins, and fometime of the whole body; as if there appear in the urine tokens of due concoction, then is that wast in the reins onely. But if there appear in the urine default of concoction, (namely being great) or if the patient have an Ague, then is it the wast of the whole body, and that standeth well with reason, that when it betokeneth the wast of the whole body, there must needs appear default of concoction; for in such case those

parts

parts which are the Instruments of con it is a coction are so weakned, that they cannot do being their office. Thele contents, by reason the Apho they are gross and heavie, therefore they ap gue, a pear alwaies in the bottom of the urinall. conce

Brannie

Other difform contents there be also, d eth o which fome are like bran, and fome like there scales. And of those that are like bran, then valle is one fort smaller, and another grosser; the inth smaller fort is like the bran of Wheat the tike) is finely ground, and those may I call fin parts The groffer is like bran of Barley mast or of evill ground wheat, and may therefore bran be called gross bran, for it is thrice as bigas open the other.

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Fine bran. Groß bran.

cales,

The third fort which is like Scales, hath no notable thickness, but onely breadth and length. These three doe betoken waste of the strongest parts of the bodie; but yet not all alike, as Hippocrates doth declare in the second Book of his Prognosticks. Howbeit, because that place of Hippocrates is to difficult, that scarcely the great learned men can agree thereon, I will not now meddle therewith, but will write Altuariw mind of those three.

When the Aque (faith he) is grounded in the bottome of the veins, then there appeareth such fine bran. Howbeit, sometimes

con it is a token of the onely grief of the bladder ot de being scabbed, as witnesseth Hypocrates, 4. the Aphor. 77. But then hath the Patient no Ayap gue, and again, there doth appear tokens of Il. concoction in the urine. But when it com-, of eth of the whole body, this is the cause like thereof; The Ague getting power and prether vailing unto the hard parts of the body (as the in those Agues which are called Fevers hecthat tike) then in the striving between those fine parts and the Ague, the Ague having the ley masterie, doth by his violence raise of such ford brannie scurffe. For the nature of fire (whose gal operation the Ague hath) is to work according as the matter is that it findeth, either to nath melt it, if it be a liquid and unctuous thing, dth either else to scale it and fret it, if it be hard after and unpliant: and the harder that the matter is, the greater scales it fretteth off; which yet thing you may fee by daily experience, how fire melteth wax and tallow, and fuch like, turning them into liquids: whereas of iron and of other metals, it maketh scales and not Scales. liquor.

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But when the Ague bath attained and overfet, not onely the substance of the veins, but also the strong parts of the body, and doth melt and waste them, then doth there appear in the urine, seates, broad

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and thin, which you shall know to come fland the whole body (as I faid of the other be fuffic fore) if the Pacient have an Ague, or the sels, life, appear default of concoction in the urine else if these two be absent, it may come the bliftering of the bladder, as Hippocran writeth 4. Aphor. 81. and namely, if the be in the urine an evill favour withall.

Gross bran.

Note.

Now to speak of the great and grow IL, V bran, which as it is much greaten then the other, so doth it declare a greater strengt of the Ague, and that in the whole body and all the parts of it, enflaming and burning ceed the whole substance thereof, and therefor is it not only the worst of them all, but i nigh unto a deadly fign, and that either by the walte and confuming of the great an strongest parts of the body, or else by the burning or drying up of the bloud. Which two things you may difeern afunder by the colour of them. For if they be red, the come they of the burning of the bloud; but if they be white, then come they of the wall of the strongest parts of the body.

Hippoc.7. Apbor. 31.

Of this kind of contents speaketh Hippor crates faying: In what soever Agues then doth appear grounds like unto grosse bran, it is a token that the sickness shall continu Which faying, Galen doth under-

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ome fand fo to be true, If the Patient have er be sufficient strength to continue with such fickthe ness, else it may be a sign rather of short tine life, then of long sickness. For as that token me is commonly deadly, so those few that doe crate chape, do recover hardly, and not without the the long sufferance of the violence of that quell Ague.

Now as touching the foreknowledge of it, whether the patient may endure with eng it or no, that shall you gather of the multiod tude, order, and stableness or unstableness of nin it. For if they be many in number, and profor ceed to worse and worse, then it is an evill ut is and mortall fign, and doth declare that nathe waste and decay of the whole constitution of the body: But contrariwise, if they appear few, and do alter continually unto leffe evill tokens, then is there good hope of health. And this shall suffice as touching thefe.

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Now to speak of the rest, of the ragged Ragged scraps, hairs, and other like: First you shall scraps. understand, that sometime a good ground is coupled with certain evill and unconcred fragments of all forts of humours, for cometime there appeareth with the contents certain ragged scraps, enclining

in colour toward a yellow, or a white, Of elfe fome fuch like, if those appear in gro In wh clie tome such like, it those appear in go In whe quantitie, they declare the matter to beh little unconcoct, and that the humour (who hope feraps they are) doth abound in the depth the with the body, and is as dust or burned, but if the with the bee few, then declare they the malice the humour to be milder, and that the conti of evill meats doth cause them, the gree will that such ragged scraps are, the lesser add do a on of humours they declare to be into speak veins, and the lesser they be, the greater he they do betoken. For the cause of su tave ragged scraps is excessive heat, which de lairs turn those humors into a thickness, and as some turn those humors into a thickness, and as some were a bony nature, by reason that they be also remained long in certain veins, and we fund neither diffolved, nor extenuated, nor whi quickly expelled by urine.

Besides these there are hairs of fund lengths, fome an inch, and fome an handle con long, fome longer, and fome fhorter; a will thele are in colour whitely, and do betok dive grief of the reins. These are ingendred int ons water-pipes, which go from the reins the bladder, fo that as long as those water bot pipes are in length, fo long may those had also also be, which are a gross and baked huma thin

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wrought in form of a hair.

Hairs.

hite, Of those speaketh Hippocrates, saying ; 4. Aph. 76. hite, of those speaketh Hippocrates, saying; an gre In whose Urine soever there doth appear bet little peeces of slesh, either as it were hairs, who bose same come from the reins, namely, if epith the urine be thick. How beit these are sometiful times seen in such mens urines as feel no alice grief in the reines, but only have fed some the continuing space on slegmatick meats, which grew will prepare matter to such diseases, as they add do also to many other griefs, of which to interpret in this place it is meet.

But to go on with this thing that were save in hand, beside such ragged scraps and hairs (as I have spoken of) there appear sometimes in the ground of the urine, and who also dis-parkled abroad in the urine it self,

y la allo dif-parkled abroad in the urine it felf, we fundry and divers kinds of motes (as it were) Motes. or which do declare that there is grief disper-

And this now may suffice, as touching contents of every kind: Therefore now The places will I a little repeat out of Alluarius of the of the contoke diversitie of judgement, by the places or reginants. ons of the contents. The lowest

That ground which fleeteth nigh to the region. bottom of the urinall, being in other points had alfogood and mild, doth betoken no ftrangg thing. But if it be unconcoct and deformed it betokeneth default in nature. And if his

parts

blame parts be disparkled afunder, it betoken to mu adimness in nature, which doth not re Conte the rebellion of noyfome humors, fo the lower in such case there appeareth need both (exc long time, and also more strength to over hard b come that evill. But as it is commendal trary that the ground fleet nigh the bottome the hi the urinall, so is it discommendable if it is róken. flat on the bottome of the same.

The middle region.

Now astouching the swim or sublim ferve tion, if it be good in colour and other wain then doth it differ only in place from a right body ground: and that cometh of an unnatur betol which maketh it to be fo light ly the of fleetabove his due place, but if his

and other like points bee evill, oth it betoken lesse evill, then if

in the right place of the ground. now as touching the third and high disegion, which is the place of the clouds eappear a light and thin cloud, it be

th no small grief of the head. fference is there in the clouds, the that they be in colour and substance other they differ from a right good

urall Content. And therefore need ing time to return thereunto. And

contrary wayes, the worfe that they are in and substance, the less they are to be

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kere blamed, by reason of their place, which is the formuch distant from the naturall place of the Contents. For this is a generall rule: The oth lower that good contents sleet in the urine, over (excepting alwaies such as cleave to the dal hard bottom) the better they are. And contents many wayes of evill contents and such like, it is the higher they fleet, the lesse evill they between.

Now to make an end of this. You shall ob- The proferve a certain proportion that is between portion of
the parts of the urine, and the parts of mans
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to the parts
to the parts
of man.

The middle region of the urine doth reprefert the middle parts of man, as the breast,
the bowels, and the parts about them. The
mether region of the urine doth purport the
lowest parts of man, from the bowels
downward. And if you mark well this proportion, you may the easier judge the griefs
of the parts of man.

For when the contents which in colour and substance are naturall, and yet by the abundance of windiness be lift up to the higher part of the urine, it declareth some great pain to be in the head. And in like manner, when the swim or sublimation doth

doth declare grief, that grief must be lowed to be in the middlemost parts of many I said before) and so of the other.

Again, as this proportion between a regions of urine, and the parts of mansh dy doth declare that place in certain height doth it in breadth also by like proportion if you doedn't mark the side, unto what the contents do decline.

And if you mark wel what I have far you may perceive the only cause of me such griefs, when the contents is only do ordered in place, cometh of an unnature windines, but yet commonly annexed with phlegmatick and unconcocted matter.

And as the windiness doth cause disord in the contents, so it causeth also anoth kind of things not to be neglected in unit and that is bubbles: which sometimes so in the ring or garland onely, and sometime in the middest of the urine onely, and oth times doe cover the whole face of the urin

The Bubbles which stand round abover the garland only, and continue without parting, if they be of the same colour the the urine is, they declare great pain to be the head, and that in all parts of the head if the Bubbles joyn together without paining. But and if they occupie only the on

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half of the garland, then is that pain in the one half of the head. And so forth may you

judge by like proportion.

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But if they doe part in fundry places, and joyn not all together, it is a token that the ans b pain is the leffer, and cometh of a weaker heigh cause. The more yellower that their coortion lour is, the greater they declare the pain in the head to be. If they be white, or rather whitish, and stand about in the compasse of the garland, they betoken little pain or none. And if the urine bee thin withall, they betoken weakness of naturall heat, orelle the opilation and stopping of the d wit reins, namely, if there appear no ground in theurine. This doth Hippocrates witness, 7. Aph. 14. ford laying; When in the urine there frimmeth bubbles, they betoken grief in the reins: uring meth bubbles, they betoken grief in the reins:
And also that it shall long continue. The reason of the long continuance (as Galen and Philotheus doe both declare) is, because that the grief commeth of cold and tough phlegmatick matter, which always is long before it may overcome. Plinyallo laith, that Lib. 28, c.6. that urine is evil, which is ful of bubbles and bet thick, in which if the ground be white, it is atoken that there shal be grief either about the joynts, or else about the bowels. Howbeit, yet sometimes the bubbles are not

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doth declare grief, that grief must be lot ed to be in the middlemost parts of man I said before) and so of the other.

Again, as this proportion between a regions of urine, and the parts of mansh dy doth declare that place in certain height fo doth it in breadth also by like proportion if you doe duly mark the side, unto whethe contents do decline.

And if you mark well what I have in you may perceive the only cause of m such griefs, when the contents is only do ordered in place, cometh of an unnature windines, but yet commonly annexed we phlegmatick and unconcocted matter.

And as the windiness doth cause disording the contents, so it causeth also another wind of things not to be neglected in unand that is bubbles: which sometimes have in the ring or garland onely, and sometimes the middest of the urine onely, and of times doe cover the whole face of the uniterest.

The Bubbles which stand round abover the garland only, and continue with parting, if they he of the same colour the urine is, they declare great pain to be the head, and that in all parts of the head if the Bubbles joyn together without paing. But and if they occupie only the

Bubbles,

e los half of the garland, then is that pain in the one half of the head. And so forth may you

judge by like proportion.

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But if they doe part in fundry places, and ansh joyn not all together, it is a token that the pain is the leffer, and cometh of a weaker heigh cuse. The more yellower that their colour is, the greater they declare the pain in the head to be. If they be white, or rather whitish, and stand about in the compasse of the garland, they betoken little pain or ly a none. And if the urine bee thin withall, they betoken weakness of naturall heat, d w or ele the opilation and stopping of the reins, namely, if there appear no ground in for theurine. This doth Hippocrates witness, 7.Aph. 14. the urine. This doth Hippocrates Witnels, laying; When in the urine there swimmeth bubbles, they betoken grief in the reins: And also that it shall long continue. The reason of the long continuance (as Galen and Philotheus doe both declare) is, because that the grief commeth of cold and tough phlegmatick matter, which always is long before it may overcome. Plinyalso saith, that that urine is evil, which is ful of bubbles and thick, in which if the ground be white, it is a token that there shal be grief either about the joynts, or else about the bowels. Howbefore it may overcome. Plinyallo faith, that Lib. 28, c. 6. the joynts, or elseabout the bowels. Howbeit; yet sometimes the bubbles are not

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an evill token, but contrariwife, a good w ken of concoction, and declare that nature doth now apply her felf wholy unto concoction. And this do the Bubbles fignife when they appear in the water, in which they were not feen long before. And there fore in an Ague, we may conjecture the de clination of it, when we fee bubbles top pear after that fort; except it be so that the appeared in the urine at the beginning of the fickness, and hath so continued still: For then they declare grievous pain to be in the head, yea and that dangerous, if the urine all be thin in substance. But if the substance of the urine be thick, then the bubbles at not so evill a fign, neither declare so greiver danger.

Sometimes in stead of Bubbles which do not appear when they should, it sufficed that there appear a gross some (as it is some times seen to rise upon wine) and it dother token even the same thing that the Bubble do, especially in the declination of the Agr, of which I spake a little before.

These Bubbles do appear very thick about the garland, in the urine of him that hath the issue of seed, or wast of nature. Sometime also there are seen in the Bubbles certain small scrapps (as you would say) much like

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hairs in grossness, and of such length sometime that they reach from the one fide of the bubble unto the other, and fometimes longer, and fometimes shorter, which things may come either of the wasting of the reins. or else of the shedding of nature.

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here c de The cause of the generation of bubbles, and O2P allo of the dispersing and elevation of the the contents, is an unnatural windiness. of the which, as there are divers kindes much dif-For fering afunder, partly in multitude, partly in o che fabitance, and partly also in quality, so doth the bubbles engendred of them diverfly and varie, according unto those differences, whether they be sole and severall, or joyntly many knit together. But windiness if it be große, then doth it puffe up such Bubbles; and if it be subtile, then doth it racet ther work a dispersion in the contents, and me is not able nor meet to cause Bubbles. And hereby may you know the qualitie of the bla windiness, and likewite also the quantitie. gu For there appeareth leffe quantitie of windineffe to bee where the contents onely are dispersed, then where such Bubbles be inthe gendred.

Now as touching the other qualities of it, as heat and cold (which are the chief qualites indeed, and most active) you may judge

them

them by the colour of the bubbles. For a pale colour, and other low colours declare coldnes of that windiness, so high colours enclining toward yellow or higher, be certain tokens of hear.

Bubbles that are small, and thick knitto gether in the garland of the urine, dothbo token a grosse windiness, whose cause can not easily be vanquished; for the grossnel and toughnesse that is in them, will not ful fer them to fwell great, and that cause them to be so small. And contrariwise, the greater that the bubbles be, and the more bouled, the more they declare that winding that causeth them to be severed from tous matter. Moreover, the colder that fu windiness is, the lesser grief is felt of them

Bubbles in the urine of old men, name being great and large, doe betoken cold wit dinesse, but sometime such bubbles are fign of rheum distilling from the head in the lights, especially if the Patient at the entring of Summer were very hot, and did drink much, which matter, the head by ing dryed, did draw unto him, and didd still again part of it down into the light whereof commeth a cough, and part of it to the womb, which thereby is moved laxe.

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CHAP. X. Of the Garland and other like things.

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it to A S I have compendiously, and yet not h bo Avery flightly spoken of those former can snek parts, to bee considered in urine, so will I briefly speak of a few more, which may fulnot well be omitted, and so make an end of the Judiciall.

uled , th First, therefore in the over-part of the u- The Garrine, round about the edge of the urine there land. appeareth a garland, circle, or ring, which doth there appear, by reason that the higher part of the urine being thinner than the rest, and more subtiller, and therefore doth not only more sooner alter, but doth more readiappeareth a garland, circle, or ring, which er declare the alteration. How beit sometime there doth appear no ring at all; and that is when the colour of the urine, and of it is all one, by reason of the great force of the cause which altereth the urine, but yet fo that nature doth match that humour, and is neither overcome by it, neither yet hath overcome it. For if nature have plainly either got the victorie, or lost it, then is there another colour in the garland, then is in the rest of the prine.

Pie

Now if the colour of the urine be evil, and the colour of the garland better, it is a token of health. As if the colour of the urine bee yellow, red, or crimfon, or any fuch like, and the colour of the garland be white, or whitely, it is a token full of good hope; but when the colour of the wholeurine is evill, and the colour of the garland worfer yet, then is it an evill fign. As when the colour of the urine is green or purple, and the garland worfe coloured, then is it plain token that nature is overcome, and that the evill humours have gotten the upperhand.

Of these more particularly doth Egidin treat, but yet not more truly nor more sufficiently, his words are these: If the circle of the urine be thick and waterie, it is at then that the binder part of the head is of pressed with phlegmatick matter; but is the purple-coloured and thick, then is the forepart of the head overcharged with blood

A pale and a thin circle declareth the left side of the head to be troubled with molancholy matter; but if it be red and thin it betokeneth choler to abound in the right part of the head.

Leddy or

A Leadie or Ash coloured circle, dot signifie the falling Evill, through the great grief of the brain.

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And further declareth that such grief shall proceed by the sinnews into the other parts of the body. But if after such a leadie colour there follow a reddsh colour, that is a good token; for then doth nature gather strength gain, and the powers of the brain reviveth.

If the colour of the garland be green, and Green. the Parient have a burning Ague, it is to be feared, least that the abundance of choler

shall cause a Phrensie.

Black colour in the circle doth fometime Black. betoken mortification, and fometime only extream heat. But these shall you distinct (as Isaid before of the urine it self) by the order of the colours. For it green colour went before, then doth the black betoken adustion through heat, but if his colour last before was ash-colour, then is it a token of death, comming through the dominion of cold. And thus much as touching the colours may suffice for this time.

Sometimes also you shall perceive a qui- in thegarvering and trembling in the garland, and land. that declareth grief in the back bone. And thus many tokens be taken of the circle or

garland.;

Sometimes there will appear fleeting on the urine, certaine fcum or fattiness, Fattiness. sometimes like drops of oyle, and sometime

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like a thin spiders web, and these both do betoken the melting of the fat within the body, as Hippoerates witnesseth in his Programs. The asset to be asset to be

This Aphorism doth Gales understands to be true, if that fattines appear quickly and much at once; else if it come by little and little with longer continuance, so doth it not betoken wast only of the fat about the reins, but rather throughout the whole body, which sign yet is not alway evil, except it continue long; for if it continue but a little

while, it declareth no great evill.

Now to goe forth with other signs; if the urine have a stinking savour, it is ever an evill sign, for it doth betoken some putression more or lesse; as of the bladder onely, by some blister or sore in it: and that most certainly, when the stinch is very great, and there appeareth also scales in the urine, and matter. But if there be matter in the urine, and the stinking savour but mean, then doth it declare the sore to be in some other part of the body. But this ever is

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do me, that matter in urine is a token of a the fore. And if in continuance of time the Prog. matter and stinch doe abate, it is a good todon ken, but if the other continue or increase, it rein is an evill fign. If the urine doe stinke, and there appear no matter in it, then is it a token once, of some mortifying. For if there be in the me prine mean tokens of concoction, then is the mortification in some one part of the nd 6 body; but if the other figns in the urine be evill, then is that mortification rather of the whole body, then of any one part of it.

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And thus have I over-run briefly the chief things to be confidered in urine, which (I fay) are appertaining or annexed to the urine it self. Howbeit two other things there are, which though they be more plainerthen these other, yet may they be overpassed no more then the other: that is to fay, blood coming forth with the urine, and

gravell expelled therewith also. Blood coming forth with urine, doth de-Blood. clare some fore to be in the reins or bladder (as Hippocrates Writethin his Aphori/ms) or else some vein so be broken about the reins, namely if it come suddenly, and without manifest cause. How beit, as Galen, Oribasius, and divers others do declare, and reason also with experience doth consent,

there

there may appear blood in the urine ale. Not that there be such a fore in the liver, or into during thatt. But in any of these cases, the painte due in the place and part, will utter for write whence the blood commeth.

Gravell.

Now to speak of gravell: Hypocram the un faith, In whose urine there appeareth gran that is in the bettome, they have the stone in the over the bladder, or else in the reins, as Galen as with deth; but commonly if the stone be in the that I reins, the gravell will be red, as Hypocram runs a declareth in his sixt Book of his Epidemin it is And thus now will I make an end of the ju good dicial of urine.

Of the Commodities and Medicines of Urine.

The greatest commodity of urine is a ready declared: that is, That it dot declare unto man, the manifold disease which happen unto him; and thereby dod not only give him knowledge of the cause, and so consequently of the cure of the same but also warneth him before of the grief to come, whereby he may take an occasion to eschew it, if he will be diligent.

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ale. Now as this is the greatest commoditie r interferin, foit hath many other as well in use ains amedicine as other waies, of which I will fre write some, though not all. And first out of Plinie, which reciteth strange operations of Plinie. from the urine of a Hedge-hog, and of a Beaft trans that the Greeks call Leontophon, and morein the over of the Beast Lynx, which I omit now with many other : but this will I not omit, Urine of n the that Hofthanes faith: That if a man let his man. cran un urine drop upon his feet in the morning; mie it is good against all evill. And that it is ie ju good for the gout, we may perceive by Fullers, which never have the gout, by reason

The same Plinie Writeth, That the Urine Offrich uof an Offrich, will do away blots and moles rine. of Inke.

Also that if Urine be tempered with water of like quantitie, and so powred at the roots of the trees, it will both nourish them (as many men fay) and also drive all noyance from them.

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that their feet are so often washed with

The urine also of men or oxen, tempered Bees. with hony, and given to Bees, will cure them that are poyloned with the flower of the Cormier or Cornoiller tree.

And likewise if Beans be steeped in u- Beans. rine

urine and water three daies before they be led for fowed, fome judge that they will increase Stinging of exceedingly. Dioscorides faith, That a man Adders,&c. own urine is good to be drunk for stinging Adders, and against poison, and also against the dropsie when it doth begin: And for the stinging of the sea-Adders, of scorpions, and dragons; it is good to loke the stinged pun

Dogs urine.

withall.

The urine of Dogs is good to foke the place that is bitten with a Dog, and to cleanse manginess, and itchinesse, if salt pe ter be added thereto. And that that is old will more strongly cleanse scales, scurff, scale and hot pushes. Also it stayeth fretting fore, namely, on the privie members. Further more it stincheth mattering eares, if it be dropped thereinto, and if it be fod in the rind of a Pomegranate, it expelleth worm out of the ears,

Childes] urine.

The urine of a child under 14. yeers of age doth cure the toughness of breath, if it be If it be fod in a brazen vessel with honey, it healeth creythes, and also the web and the tey in the eie. There is maded it and copper, good foulder for gold.

Dregs of urine.

The dregs of urine is good for Saint As thonies evill, if it be nointed thereon, fo the (as Galen doth wifely add) the fore be coo

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be led first with some other thing, and bee not create burning. It it be heated with oyle of privet, man and laid to the womb of a woman, it will affwage the grief of the mother, and cureth and also the rising of the same. It cleanseth the the cic-lids, and the creythes in the eyes.

oxe stale being tempered with myrrh, Oxe stale. pan and dropped into fore eares, healeth the pain of them. The urine of a wild Bore, is of the Wild bore.

the same vertue if it be kept (as Sextus Plad to tonicus writeth) in a glaffe, and dropped pe warm into them, but it hath a more peculiar old property in breaking of the stone, and to cabl expell the same, if it be drunke.

Goats urine drunke every day, with Goats urine ther Spikenard, and three ounces of water, is good for the dropfie, for it expelleth urine the by the fege, and it cureth pain of the ears, it

it be dropped into them.

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Affe piffe (as it is written) is good for the Affe piffe. grief of the reins, if it be drunke.

Mules stale (as Paulus Ægineta saith) Mules stale.

age, ber isgood to heal pain in the joynts. the

The stale of Camels and Goats also doth Camels and provoke sege, and therefore is good for them goats stale. that have the dropfie.

10 Sextus Platonicus faith, That Goats u. Sextus Plahal tine (if it be drunke) doth provoke womans senicus. terms, and cureth pain in the eares being

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droped into them, and being mixed we of a Paulus Amulfer wine, and so dropped into the earl free gineta. it draweth out matter, if there be any. Ifor

Wild Bore. The urine of the wild Bore with mol Gen vineger, is good for the falling evill, if it drunke.

Dogs piffe. A Dogs pifs tempered with dust, and berea in wool, will heal corns marveilously, a destroy warts.

Childes urine.

A childs urine will heal the stinging of men Bee, Waspe and Hornet, if the place have washed therewith.

A mans urine will cleanse the freek Mans urine. and spots in the face. And if a woman a 27. not be delivered of the after burden, let bofa drinke mans urine, and the thall be delig wom red straight.

Collumella.

Collumella faith, that the best dunging wom yong hots of trees, is mans urine, name pelle which hath stood half a yeer. For if pofor to water vines or apple-trees with it, then pers nodung that will cause so much fruit as 2 will doe: and not only that, but it cauld be die

Sheeps urin alfo the favourand the tafte both of the spith ples, and of the wine, to be much the bethe b doe 1 ter.

Conftantinus Affricanus.

Constantinus Affricanus faith, That the well, rine of a Sheep, or an Oxe, with some hot a Lil is good for the grief in the cars that commendan ed wi of cold. Urine (as Vitalie de Furno saith) Vitalie.
e can fretteth, dryeth, and burneth, and is good
y. for the grief of the spleen, if it be drunk, as
mil Gentilia Writeth.

if it The Urine of a male Asse, as the same Vi- Asse stale.

and berease and preserve bair.

ly, a And as some say (by the writing of Mar-M. Virgilius cellus Virgilius) Urine is of no smal nonrishing of ment, for divers folk in the time of dearth, acceptave been preserved by the onely use, and drinking of it.

frecht Also Marcellus the Practicioner, in the Marsellus.

in a 27. Chapter doth witnesse; That the Unine let he faman is good for divers diseases of the delivered and bowels, and namely for the Collick, because that partly with provoking of single vomit, and partly by occasion of seges, it examples the strongly all noysome humours, and if posorthe same cause doth common Practitio-

there ners keep it still in daily use.

t as Ulderick Hutten also witnesseth, That Uldericus cause be did drive away the Agne above 8. times the with the only drinking of his own Urine, at ne bethe beginning of his sickness. And many still doe use the same practise, and it proveth

the Well.

total Likewise Marsilius Ficinus Writeth that Marsilius commany men doe use to drink urine for the Pe-Ficinus.

Stilence; which thing did Galen Write log jo before him, and also Paulus Ægineta; a bi doe testifie also, that it preserved them to an dranke it: at the least way as they though a

Galen.

All urine (as Galen Writeth) is hot i to vertue, and tharp (as faith Agineta) how too beit, it differeth according to them that mi we it. For the hotter they are that make it, the hotter is it also, and likewise the colders rin rine cometh of a colder body.

Mens urine is the weakest of all other use except tame barrow hoggs; for they in ver ing many points agree with man, but the unit For

of wild Bores is stronger.

Mans urine

Mens urine is of as strong cleansing vern good as any thing else, and therefore doe Fulla use it to scoure and cleanse their cloth. An did in cure of griefs also for the same reason and it isused to soke, and wash maunginess, an it. scabbedness, and running fores that are fil of corruption and filth, and specially if the thin have in them putrified matter, and for fur fores on the privie members it is good, an of u for mattering eares, and for scales and scurl other if the head be washed in it.

I have healed with it many times fores a know the toes, namely, which came of bruils and were without inflammation, and the in servants and husbandmen, which had

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te low journey to goe, and no Physitian with them. bidding them to wet a small clout with it. ta; m and to put into the fores, and then to bind m th nough a cloth about it, and as often as they lifted hot to make water, to let it fall on their fore) how toes, and not to take the cloth away till it t mi were quite whole.

That medicine which is made of childes uit, th Ider rine, called of some men in Greek, Chryso- Chrisocola cola (that is to fay, gold foulder) because men othe use to soulder gold. This (I say) is exceedinvering good for fores that are hard to heal. um For this medicine doe I use for the chiefest. mixing it with fuch other things, as are vert good for fuch like fores:

Fulle In the time of Pestilence in Syria, many An did drinke Childrens urine and mens alfo. and thought that they were preferved by S, 20 it.

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Of urine also, do Alchemysts make divers Alchumists; things, as falt, and other things moe.

fud And many other commodities there bee and of urine, as for washing and scouring, and cut other like, which for briefness I over-passe, and the rather, because they are commonly es a known of all folk.

Of the Diseases touching Urines, and the Remedies for the same.

Ow to come to that I promised, as too After ching the griefs which hinder urine Am or expell it disorderly, either in time of Ang ner then is meet, or in qualitie, with other Bete fashions then is agreeable to it, or like Bry ther forts, I will briefly write, not intending Byl to teach the art of curing them, (which Cha would require a longer Treatife, and a men Cap er place) but onely to name certain of the of most common diseases, and to set after then Clas fuch fimple and uncompound medicines on Clo ly which cure those griefs.

Stopping of urine. The stone.

First therefore, touching the hinderand Fen. or Ropping of urine, it is not unknown Go that one common cause is the stone, which Gla fometimes is in the reins, and fometimein Gro commonly you may differn those two ar afunder, by the colour of the gravel, but the A ! more fure token is the grief in the fick part. Har

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Now for the cure of the fame, doth thek Kno medicines ferve, which follow. But as I have al waies faid, you shal use them with the counfell of some learned Physician; for there is great difference both of the grief, and of the Media medicines.

High Mallows feed

and Root.

Pelliter of Spain. Pyony Berries which are black.

S. Johns Wort.

Swines Fenell.

Sothern Wood-

Mugwort.

Parseley.

Radish.

Sampere.

Sperage.

Scholm.

feed. Sour Almonds.

Tent-wort.

Tutsan Berries.

Water Plantine.

Winter Gilli-flower

Medicines for the stone, both in the Reins and Bladder.

Miara Batta of Affarim

s tos Aftra Bacca. Madder root.

urine Amcos.

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othe Betony.

end

ike Bryony root.

Bylgrum.

Chamamel.

Capers Bark, namely

f the of the root.

then Claret feed.

s on Clot feed.

Dock root.

rance Fenel feed, and root.

wn Goats blood.

hid Gladian.

nein Gromell.

that Gum of Plumtree, ewo and Cherry tree.

the A hedge Sparrow. part Harebell.

hele Kneholm root and have

Berries.

une 15 the

edi-

And beside these there are divers others.

Also the Stone it selfe that came from a man,

man, being braid and drunken, will break and expell that other within him.

Beside the stone, also it causeth the unine to be clean stopped, by reason of weak ness of the expulsive vertue, and sometime through clodds of blood, which rest in the shaft. Sometimes also through tough and clammie humours, and sometime through some swelling within the yard, and diverso ther wayes also, of which the declaration is too long for this place and time: but another time I intend to write of them a large, and of all other griefs of mans bodie.

But to return to this, matter that is in hand. One other stop of urine there is, which doth not clean let it, but causeth it to avoid lesser then it should; and this commeth of like causes as that other last did, save that the cause is less, according as the stay of urine is, and therefore the cure in both is much like. For if it come of weakness of the expulsive vertue, then with the use of other hot mean and drinks, those medicines are good which doe provoke urine, as these be that follow.

Medicines which doe provoke urine.

Annife-feed, Ally-faunders, Alkakengi.

Bafyle. Bylgrum. Cammock.

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oreak Charlock. Chervell. Carawayes. Calamus Aromaticus. Cubebes. Dictany of Candie.

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in the h and rough Dragance. erso Fumitorie. on it Fatchys. Flower delyce. ano-Garlike.

Ground pine. Ginger.

Helecompane. Honey.

Juniper and the Ber-

ries. Lase saverie. Leeks. Mints. Margerom.

Maiden hair. Navew. Nepte. Negella Romana.

Nettle. Pepper.

Pye Ryall. Quinces.

Rue. Rosemary.

Rocquet. Savine.

Sage. Saverie.

Time.

Valerion.

Wild Marjoram. Wild Parfeley.

Wild Time.

Water Cresses.

Woodbinde.

with many other, and namely those for the most part, which I named before to be good for the stone. But there must be discretion in the use of them.

Besides those, is there a disease named the Strangurie (which some corruptly call the Excess of Strangurion) in which Disease the urine urine. doth continually drop forth, as falt as it cometh into the bladder. And therefore may it well be noted the first kinde of such

griefs

griefs as provoke forth, and further urineer cessively. For that strangurie these Metcines following are noted good.

Medicines for the Strangurie.

Alifander. Knot graffe, Aftra Bacca. Kneholm. Brokelime. Sperage. Ceder berries. Seholm. Spatula Fetida. Ceterake. Turpentine washed Calamus Aromati-Wilde Fennell. cus. Gladiane. Water mints.

But you must consider (as I have often faid) that as the disease may come of fundry causes, so it must have sundry cures. For most commonly these are good that I have written, yet such may bee the cause of the sickness, that they may do harme, therefore take alwayes counsell of some learned Physician.

Another kinde of excellive making of urine cometh of the weakness of the recentive vertue in the reins, whereby the Patient pisseth as fast as he drinketh, and that in like quantitie. This I may call the flux of urine, or pissing evill: or after the initation of the Greeks, the pisse gont. For which disease it is not greatly commendable

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to fet forth medicines with the onely bare names. Howbeit, if I doe it, I trust no man will the rather misuse them, namely being warned so often to take no medicines without counsell, and specially in this thing, For some of the Medicines must be received inwardly, and some of them emplastred outwardly.

Medicines for the pissing evill.

Apples.
Dates.
Elecompane.
Perys.
Wyrtle Berries.
Night shade.

Cycory. Comferie.
Endive. Paritarie.
Penny wort. Lettis.
Lintels. Pomegranat.
Purselane.
Vine leaves.

Other defaults there be of excess of urine, as of them which cannot keep their urine, and namely of children, which pisse their beds. This disease cometh oftentimes of the dissolution of the muscle which should keep the urine, and therefore requireth cure meet for it, and unmeet for this place, and such shortnesse. Wherefore for this time here I will make an end, trusting that all men will with as gentle heart receive this my writing, as I of gentleness have taken the pains to set it forth.

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Additions

Of the diversities of Colours, and of the making of them.

Ecause that it is not very easie for every Dman to diffinguish colours duly asunder, I thoughtingood at the end of this Book, 1 little to touch the distinction and making of them, namely of fuch as are mentioned be then fore in this Book.

Milk white.

Milk white, by the name of it felf doth fufficiently declare what it is ; for it is the very colour of milk, though the substance need not to be fo thick in the urine, as in the milk, for the colour must be understood several from the substance, both in this and all other colours, which thing would be remembred, for it might else (as it hath often done) deceive the simple folk.

Horn white. Horn white in like manner hath his name of the thing that it affimuleth molt, for it is like the white and cleer part of a horn of a lanthorn, or fuch like.

Grey.

Grey is like the white part of a mans nail next unto the joynt, or like hoar hair that is not very white, for gray is fo much darker then horn white, as horn white is darker then milk white. Pale

Pale colour hath a certain appearance of Pale. yellow in it, but is exceeding little. If you feetha peece of the rind of Pomegranate, and then put to it thrice as much clean wathe per, it will be a pale colour.

But if you put thereto little or no clean every water, it will be flaxen coloured, that is Flaxen.

nder, somewhat more yellower then pale.

ok, 1 After it followeth pale, which is a kind Pale. ng of light yellow, fomething lighter in colour be then crown gold.

For the colour of pure gold (as an angell Yellow.

doth or royally is a right yellow colour.

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A light faffron colour is, that colour that Light fafthe and fiftron doth make when it is steeped in wa-from s in ter, and laid light on any white. For if it be ood laid on deep, then doth it make a full faffron colonr. For that is called a faffron co-Saffron. and lour, which faffron doth die, and not that that is in the faffron it felf. For that is very Red. ten red, and is higher then claret, which is a Claret. mean colour between faffron and red, as if it were made of them both mixed together.

Crimson is a dark bloody colour, well Crimson. known by his own name, but is not in urine to light as it sheweth in cloth. Purple, Purple. needeth not to be much described, being so commonly known, howbeit if you will fee the making of it, mixe a dark crimson, with

The Fudiciall of Urine.

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an orient blew, and it will be purple. An their because that many men be deceived in a latin name of this colour, you shall obser that that it is not that which in Latin is called high Purpureus color, (as most men thin) green for that is rather a crimson, but it is called high more peculiarly Purpura violacea, or Pageet feus color.

Blew.

Blew colour is the colour of the clar Al Skie, or of Azure. Howbeit, in urine it made not so orient, but if you will mix pure when re (as white lead, or pure lime) with due por This tion of right black (as cole dust, or out ark like) then there will of these amount the both brig blew, which is ascribed to urine.

Green.

Green is a compound colour of blew m tob yellow duly tempred together. And the N right green have I in this Book called a lan whi Stark green. green. But if the yellow do exceed in it, the wite

is it a light green; and contrariwife, if the other Lightgreen. blue do exceed, then is it a dark green: Of the this green doth Dioscorides mean, when he told doth fay of divers herbs, that their leaves that

black; and sometime when he noteth white tea lines to be in herbs, he meaneth a light grea, dan though he other times understandeth then ten by a certain horiness; of which thing i of a mine Herball you shall read more exactly

Dylie.

Oylic colours differ from green oylical

thei

neis

in a faire in the urine where they appear. The obline through is somewhat lighter, (or rather) Light thing seen, So is the stark oylie brighter then the Stark. It is the stark oylie brighter then the Stark. Or P4 green, which all cometh through the thingular of substance in the urine.

Ash-colour is darker then blew, and is Ash-colour.
The it made of the same fort that blew is, save that
Whit requireth more of the black by twofold.
This is the colour of lead, which is much othe larker then the inner part, though indeed the both are one colour, and differ onely in brightness and darkness, which ought rather

wan to be called the hue of colours, then colour.

In the Now as for black, I need not to speak any Black.

In the whit, for as all men do know it, so these vertical vieters do shew it, which though of all if the other it be most deadly, yet is it surely of all it where it be most deadly, yet is it surely of all in he colours, and none can change it, so that well west it may be called the colour of death. For as which death overcometh all bodies, so black doth men damp all colours; beside, that it is the message if the end of colours.

The

forW The Exposition of certain VV ords, in what I Ow for because I was inforced to used in Sook, which be not well known of the more alto fort of men, though a great number know Brighthem well enough, by often talking will ever Physicians, I thought it good here to declarate fome certain of them, for the aid of the mol bant And simple fort. urine

Ages.

Because that in the judgement of urine it Ye the differences of ages ought to be conside to med, you shall understand that the chief di here ferences of them are four, that is to micol Childhood, Youth, Manhood, and Old-an would be the state of the sta

for though there be commonly 7. Ages mailing koned, yet these be four principall, and the Co other three be comprehended under the there four, childhood endureth from the hour dtoken

birth till the end of 14. yeers of age, and eithe of complexion hot and moift. At the end dickn

14. yeers beginneth youth, and lasteth till the beres 25. yeer, and this age of all other is in compecu plexion the most temperate. From 25. until nels

35. yeers, is the flourishing of manhood, but But of yet that manhood lasteth (though not in ful daye

freshness) until 50. yeers of age, and this age call, is of complexion hot and dry. From 50. year kind

for ward

Childhood.

Youth.

Manhood.

forward, is the time of age peculiarly called, Age. ords, in which time mans nature is cold and dry, to and not moist, as many doe falsely thinke. in the Active qualities, see the title of qualities, see me Alterative vertue, see in the title of vertues.

know Brightness in urine must be marked for a grant keeral thing from cleerness. For the bright-declar affe betokeneth the orientness and the mo banty of the colour, with a certain gliftring. And cleerness is referred to the substance of Clearness.

wine, and is ever annexed with thinness of aring it Yet is it a divers qualitie from thinness, and so may an urine be cleer in substance, by if di the reason of his thinness, and yet not bright to a motolour, and not cleer in substance, but this dan would be well pondered, lest this necessarie is mulistinction, cause a negligent confusion.

d the Criticall dayes be such dayes, on which Criticall

the there is (or may be) perceived some certain dayes. ur doken and great alteration in the fick body, nd either to health or death, or continuance of nd a fickness. What these be, more at large I will Il the breafter (God willing) declare in a Book com reculiarly, because it requireth more largenel resof words, then is meet for this place. but one thing I must tell you, that the same

ful tayes also be called Judiciall, but not Indi-Judiciall age call, for the Indiciall daies are of another dayes.

em kind : but yet affociate to these other. ard.

Cruditie

The Judiciall of Urine.

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Cruditie.

Cruditie is the rawnels of the meat in the ch ftomack, when the naturall operation of ich cannot duely digelt the meat which it be weet received; and therefore the urine which As clareth default of fuch digestion, is called with crude, raw, and unconcoct urine.

Cupping.

Cupping is commonly known, that is. needeth no declaration.

rine.

A cloddie urine is that which hath in I clods of bloud, or other crude matter, or in lac clusterings of difform contents.

Dark ground is not meant of the day also ness of colour, but rather of the slendered non of substance, so that it can scarcely beed that cerned to be any ground, by reason that it can is so neer in shape and substance to the results of the union.

Dulnes.

of the urine. Dulness of colour is contraptal to brightness, so that when the colour latitude eth all brightness, then is it clean dulled, and ar whatfoever thing caufeth decay of fud thic brightnesse, that thing dulleth urine. his

Divors.

Those contents be called divers, which app have neither their own right form, nor an hole other certain, but are altogether disorderd the and out of form, rather feeming to be many, acre then to be one.

Duly knit.

Duly knit, is a property of due contents for when they are not tattered, ragged, nor jag her, ged, nor flittering afunder, nor yet are not pres

flon

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Harvest. **Judicial**

daves.

on the thing, but are in a moderate mean beit in men both these.
hicher Agathering sore, is that sore that is caused A gathering

called of the excessive recourse of humours into my part of the body, as a bile, or any other

that like.

Harvest, seek times of the yeer. h in Judiciall daies, seek Criticall dayes. ora Inequalitie of substance in urine doth ap- Inequalities par to be the difforments and disagreeing

drifthe parts of it together; as when it is thin lern sone part, and thick in another. How beit, ecditias well used for the alteration from a that ten substance to thicknesse or thinnesse,

ne id tother wayes unnaturall. Obstruction, Obstructi-

num saltopping commonly of the veins, and on. lack of great conduits (which convey blood ed, and a any other humour) fo that the thing in thich they should convey cannot freely

has as it ought. But if the like stopping which ppen in the pores of the skin, (I mean r am tole unsensible holes, by which swear pasdera throut) fo that neither (weat, nor any like

nany, acrement may pass that wayes, then is it not named Oppilation. Howbeit, as these Oppilation.

ents words be sometimes used the one for the oin her, fo they be applied also to other fundry not was of the body; but evermore they beto-

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ken fuch stopping in that part, that name work is hindered thereby.

Principall. members.

Principall members (as to our purp now) are these 3. the brain, the heart, a the liver.

Paffive. Putrefaction.

Passive : seek Qualities. Putrefaction is commonly known tof

nifie, rotting.

Qualities.

Qualities active, are named hear and col because they are more aprand able to work then to be wrought. And contrarie was driness and moisture are named passive, fuffering qualities, because they are mor ready to be altered by the working of he and cold, then to work themselves; howbi yet they doe work also. they

The four times of fickneffe.

There be in sickness four principall part of time, to be observed of Physitians : The beginning of lickness, the increase or an menting, the standing or chief force of it, the declination or affwaging of it.

The beginning.

The beginning is, from the time that fice nesse hath overcome mans strength, and o brought him to lie down, till there da band appear manifest signes of concoction of the the matter, whereof the disease cometh, which time, the sickness waxeth siercer and the fiercer: and while it so continueth, the other time is called the Increase and augment

The increafe.

offickness, but when the violence of the fickpurpe refle is at the most, so that the rage of it is at The state. rt, a one stay, and neither increases nor decreases, that time is called the standing, stay, state, erchief strength of the sickness. And after tof that the furious rage of fickness doth abate, and calm his cruell frormes then is the dedination of the sickness: after which (if the wor Prient escape as very few die in the declina- Declinatiwant ion) then followeth recovery to health a on. ive, win. And these be the four generall or unimo whall times of fickness. Beside these there of he other times more particular, wherof Times of who low to speak I need not. The diversity of the yeer. imes in the yeer are duly to be observed, for pan they do much alter mans body.

The Spring time increaseth blood and The Spring.

bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a temit an bingeth all the parts of the body to a lower the
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For at the rifing of the Pleiades (which is now in our time about the 24.day of April)

he faith that Summer doth begin. Which

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Summer.

Summer is in complexion hot and dry, and therefore meet to increase choler, which in that time doth abound. The Summer lasted 21. weeks. Harvest doth begin after Galen

Harveft.

The Harvest, is dry d lasteth 7. weekes. complexion, but neither only hor, nor only cold, but is distemperate in hear and cold For in the morning and evening it is cold and at noon it is hot. So may it not be alled justly (as men do name it) cold and dry. In this time doth melancholy increase

At the end of Harvest, about the sevent day of November, doth Winter begin

which time is cold and moist; and therefor increaseth flegm, which is like in complete

minde, about the 17. day of September, and

Winter.

Another fort of thefe times.

on unto it. And the Winter lasteth till the 10. day of March; fo, is it in length about 17. weeks and a half, and then beginneth the Spring time again. And this is the coursed the year, after Phylick. Other men which in treat of Husbandry, do part the yeer into 4. equall parts, giving 3. months to ever time. Unto the Spring they give Februars March, and April. To the Summer, Ma

dayed que, and July. Unto Harvest, August, ich is September, October. And unto Winter they appoint November, December, and January. Why the Physicians part the yeer one way, y, and and writers of husbandry another way, at ich in nore convenient time I will declare.

Vertues naturall are four. The first is, That which draweth nourishment into due plaes, and that is called the attractive vertue. The second, is it that altereth the nonrish-Alterative.

The second, is it that altereth the nonrish-Alterative.

The second, is it that altereth the nonrish-Alterative.

The second is called the alterative vertue. The third is that vertue, which keepeth in the good Retentive.

The second is called the re
The second is called the vertrate untive vertue. The fourth, is called the vereventi tue expulsive, because his office is to

expel those superfluous excrements

which are left, when the other

vertues have done their office duly.

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Expullive.

FINIS.